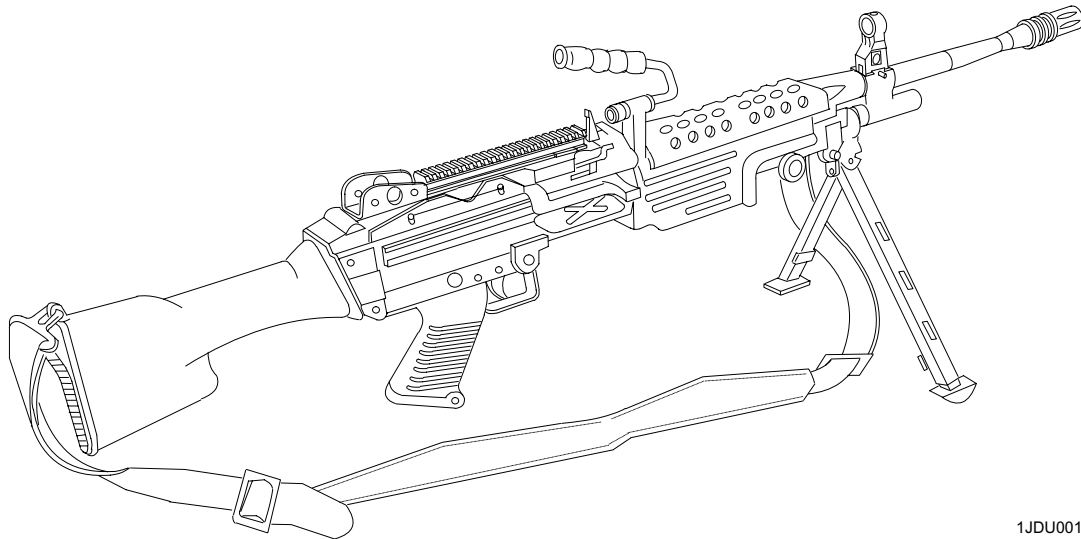


This copy is a reprint which includes current -
pages from changes 1 through 7

ARMY TM 9-1005-201-23&P
***MARINE CORPS TM 08671A-23&P/2A**
AIR FORCE TO 11W3-5-5-52
Supersedes copy dated 1 April 1984

TECHNICAL MANUAL
UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)
FOR

MACHINE GUN, 5.56MM, M249 w/EQUIP
(NSN 1005-01-127-7510) (EIC: 4BG) (AR ROLE)
(NSN 1005-01-451-6769) (EIC: 4BK) (LMG ROLE)



1JDU001

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U.S. MARINE CORPS AND AIR FORCE

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WARNING

Before starting an inspection or disassembly, DO NOT actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty, and check to see that there are no obstructions in barrel.

DO NOT allow live ammunition in or around work spaces.

DO NOT interchange barrel assemblies (to include spare barrel) or bolt assemblies from one machine gun to another without having headspace checked. Doing so may result in injury to personnel or damage to the gun.

Using paint thinner, gasoline, kerosine, benzene (benzol), water, steam, or air for cleaning the weapon is prohibited. Use only authorized cleaning material.

Wear safety glasses when removing and installing spring-loaded components. Failure to do so could cause serious eye injury.

Do not modify components, use repair parts, or interchange components other than those authorized by this TM. This includes other models of machine guns or foreign versions of this weapon.

When applying compounds from aerosol cans, be sure area is well-ventilated.

Dry cleaning solvent is flammable and toxic. Make sure there is adequate ventilation. Keep away from ignition source. Make sure safety equipment (safety glasses/chemical splash goggles, safety gloves and eye wash station) is available when using this solvent.

For first aid data, see FM 21-11.

CHANGE

NO. 7

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 28 June 2002

Technical Manual
Unit and Direct Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(NSN 1005-01-127-7510) (EIC: 4BG) (AR ROLE)
(NSN 1005-01-451-6769) (EIC: 4BK) (LMG ROLE)

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Remove Pages

None
i through 1-0
1-1 through 1-4
2-1 through 2-18.2
2-18.5 and 2-18.6
2-19 and 2-20
None
2-21 and 2-22
2-29 through 2-34
2-37 through 2-38.2
2-44.1 through 2-46
2-49 through 2-52
3-1 through 3-4
3-9 and 3-10
3-10.1/(3-10.2 blank)
3-15 and 3-16
3-16.1 through 3-16.8
3-17 and 3-18
3-25 through 3-40
3-43 through 3-46.2
3-47 through 3-48.4
3-48.5/(3-48.6 blank)
3-49 and 3-50
3-55 and 3-56
A-1 and A-2
B-7 through B-9/(B-10 blank)

Insert Pages

A and B
i through 1-0
1-1 through 1-4
2-1 through 2-18.2
2-18.5 and 2-18.6
2-19 and 2-20
2-20.1 through 2-20.3/(2-20.4 blank)
2-21/(2-22 blank)
2-29 through 2-34
2-37 through 2-38.2
2-44.1 through 2-46
2-49 through 2-52.1/(2-52.2 blank)
3-1 through 3-4
3-9 and 3-10
None
3-15 and 3-16
3-16.1 through 3-16.4
3-17 and 3-18
3-25 through 3-40
3-43 through (3-46.1 blank)/3-46.2
3-47 through 3-48.4
None
3-49 and 3-50
3-55 and 3-56
A-1 and A-2
B-7 through B-10

ARMY TM 9-1005-201-23&P
MARINE CORPS TM 08671A-23&P/2A

Remove Pages

C-9
C-1-1 through C-4-1
C-4C-1 and C-5-1
C-6-1 through Figure C-7
C-8-1 through C-14-1
I-1 through I-13
D-1 through E-2
Index-1 through Index-7/(Index 8 blank)
Front Cover and Warning

Insert Pages


C-9/(C-10 blank)
C-1-1 through C-4-1
C-4C-1 and C-5-1
C-6-1 through Figure C-7
C-8-1 through C-14-1
I-1 through I-13/(I-14 blank)
D-1 through E-1/(E-2 blank)
Index-1 through Index-7/(Index-8 blank)
Front Cover and Warning

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Chief of Staff

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*Administrative Assistant to the
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HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington D.C., 15 March 1996

NO. 6

Unit and Direct Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(1005-01-127-7510) (EIC: 4BG)

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Remove Pages

i thru iv
2-19 and 2-20
2-29 and 2-30
2-38.1 and 2-38.2
2-44.1 thru 2-46
2-51 and 2-52
3-3 and 3-4
3-9 and 3-10
3-16.1 and 3-16.2
3-16.5 thru 3-18
3-25 and 3-26
3-43 and 3-44
3-48.1 and 3-48.2
3-48.5 thru 3-50
3-57 and 3-58
A-1 and A-2
B-7 and B-8
C-3-1 and C-4-1
C-4C-1 and C-5-1
C-13-1 thru Figure C-15
I-1 thru I-12
Index-1 thru Index-6

Insert Pages

i thru iv
2-19 and 2-20
2-29 and 2-30
2-38.1 and 2-38.2
2-44.1 thru 2-46
2-51 and 2-52
3-3 and 3-4
3-9 and 3-10
3-16.1 and 3-16.2
3-16.5 thru 3-18.2
3-25 and 3-26
3-43 and 3-44
3-48.1 and 3-48.2
3-48.5 thru 3-50
None
A-1 and A-2
B-7 and B-8
C-3-1 and C-4-1
C-4C-1 and C-5-1
C-13-1 thru Figure C-15
I-1 thru I-13
Index-1 thru Index-6

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NO. 5

HEADQUARTERS
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Unit and Direct Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(1005-01-127-7510) (EIC: 4BG)

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Remove Pages

i thru iv
1-1 thru 1-4
2-1 thru 2-4
2-9 and 2-10
2-13 and 2-14
2-18.1 and 2-18.2
2-18.5 thru 2-18.8
2-22.1/(2-22.2 blank) thru 2-26
2-29 and 2-30
2-39 thru 2-44
2-51 and 2-52
3-1 and 3-2
3-11 thru 3-14
3-31 thru 3-38
3-41 and 3-42
3-55 and 3-56
A-3/(A-4 blank)
B-3 and B-4
B-9/(B-10 blank)
C-7 and C-8
C-1-1 thru Figure C-3
C-4C-1 and C-5-1
C-9-1 and Figure C-10
C-11-1 and Figure C-1 1A
I-1 thru 1-12
D-1 thru D-3/(D-4 blank)
Index-1 thru Index-6
Front Cover and Warning

Insert Pages

i thru iv
1-1 thru 1-4
2-1 thru 2-4
2-9 thru 2-10.1/(2-10.2 blank)
2-13 and 2-14
2-18.1 and 2-18.2
2-18.5 thru 2-18.8
2-22.1/(2-22.2 blank) thru 2-26
2-29 and 2-30
2-39 thru 2-44
2-51 and 2-52
3-1 and 3-2
3-11 thru 3-14
3-31 thru 3-38
3-41 and 3-42
3-55 and 3-56
A-3/(A-4 blank)
B-3 and B-4
B-9/(B-10 blank)
C-7 and C-8
C-1-1 thru Figure C-3
C-4C-1 and C-5-1
C-9-1 and Figure C-10
C-11-1 and Figure C-1 1A
1-1 thru 1-12
D-1 and D-2
Index-1 thru Index-6
Front Cover and Warning

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NO. 4

Washington D.C., 14 January 1994

**Unit and Direct Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(1005-01-127-7510) (EIC: 4BG)**

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Remove Pages

None
None
C-4 C-1 and C-5-1

Insert Pages

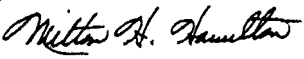
2-22.1/(2-22.2 blank)
3-16.3 thru 3-16.5/(3-16.6 blank)
C-4 C-1 and C-5-1

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ARMY TM 9-1005-201-23&P
MARINE CORPS TM 08671A-23&P/2A
AIR FORCE TO 11W3-5-5-52
C3

CHANGE

HEADQUARTERS
DEPARTMENT OF THE ARMY

NO. 3

Washington, DC 22 June 1993

Unit and Direct Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(1005-01-127-7510) (EIC: 4BG)

ARMY TM 9-1005-201-23&P, MARINE CORPS TM 08671A-23&P/2A, AIR FORCE TO 11W3-5-5-52, 14 December 1990, is changed as follows:

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Remove Pages

i thru iv
1-1 and 1-2
2-5 thru 2-10
2-19 thru 2-24
2-37 and 2-38
2-44.1 thru 2-46
3-3 and 3-4
3-16.1 thru 3-18
3-27 thru 3-52
B-3 thru B-8
C-5 and C-6
C-1-1 thru C-15-1
I-1 thru I-10
D-1 thru D-3/(D-4 blank)
E-1/(E-2 blank)
Front Cover and Warning

Insert Pages

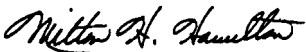
i thru iv
1-1 and 1-2
2-5 thru 2-10
2-19 thru 2-24
2-37 thru 2-38.2
2-44.1 thru 2-46
3-3 and 3-4
3-16.1 thru 3-18
3-27 thru 3-52
B-3 thru B-8
C-5 and C-6
C-1-1 thru C-15-1
I-1 thru I-12
D-1 thru D-3/(D-4 blank)
E-1 and E-2
Front Cover and Warning

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NO. 2

WASHINGTON, DC

7 JULY 1992

**Unit and Direct Support Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(1005-01-127-7510) (EIC: 4BG)**

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Remove Pages

i and ii
1-1 and 1-2
2-3 thru 2-18
2-22.1/(2-22.2 blank) thru 2-24
2-27 and 2-28
2-41 thru 2-48
3-1 and 3-2
3-5 and 3-6
3-19 and 3-20
3-47 and 3-48
D-1 thru D-3/(D-4 blank)

Insert Pages

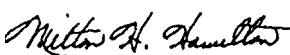
i and ii
1-1 and 1-2
2-3 thru 2-18.8
2-22.1/(2-22.2 blank) thru 2-24
2-27 and 2-28
2-41 thru 2-48
3-1 and 3-2
3-5 and 3-6
3-19 and 3-20
3-47 thru 3-48.3/3-48.4 blank)
D-1 thru D-3/(D-4 blank)

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CHANGE

No. 1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC 10 February 1992

Unit and Direct Support
Maintenance Manual
(Including Repair Parts and Special Tools List)
for
Machine Gun, 5.56MM, M249 w/equip
(NSN 1005-01-127-7510) (EIC: 4BG)

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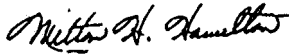
Remove Pages	Insert Pages
i thru iv	i thru iv
1-1 thru 1-4	1-1 thru 1-4
2-3 and 2-4	2-3 and 2-4.1/(2-4.2 blank)
2-7 and 2-8	2-7 and 2-8
2-19 thru 2-22	2-19 thru 2-22.1/(2-22.2 blank)
2-25 thru 2-40	2-25 thru 2-40
2-51 and 2-52	2-51 and 2-52
3-3 and 3-4	3-3 and 3-4
3-7 thru 3-10	3-7 thru 3-10.1/(3-10.2 blank)
3-13 thru 3-18	3-13 thru 3-18
3-27 and 3-28	3-27 and 3-28
3-33 thru 3-38	3-33 thru 3-38
A-1 thru A-3/(A-4 blank)	A-1 thru A-3/(A-4 blank)
B-7 and B-8	B-7 and B-8
C-1-1 thru C-4-1	C-1-1 thru C-4B-1
C-8-1 thru Figure C-10	C-8-1 thru Figure C-10
C-n-1 and C-12-1	C-11-1 and C-12-1
I-1 thru I-10	I-1 thru I-10
Front Cover and Warning	Front Cover and Warning

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LIST OF EFFECTIVE PAGES

Dates of issue for original and changed pages are:

Original.....	0.....	14 December 1990
Change.....	1.....	10 February 1992
Change.....	2.....	7 July 1992
Change.....	3.....	22 June 1993
Change.....	4.....	14 January 1994
Change.....	5.....	3 March 1995
Change.....	6.....	15 March 1996
Change.....	7.....	28 June 2002

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 224, CONSISTING OF THE FOLLOWING:

Page No.	*Change No.	Page No.	*Change No.
Front Cover	7	2-35	1
Warning	7	2-36	0
A and B Added	7	2-37 through 2-38.2	7
i through v	7	2-39	1
1-0	7	2-40 and 2-41	5
1-1 through 1-4	7	2-42 and 2-43	0
2-1	7	2-44	5
2-2	5	2-44.1 and 2-44.2	7
2-3 through 2-4.1/(2-4.2 blank)	7	2-45 and 2-46	7
2-5 through 2-6	7	2-47	2
2-6.1 and 2-6.2 Added	7	2-48 and 2-49	0
2-7 through 2-8	7	2-50 through 2-52	7
2-8.1/(2-8.2 blank) Added	7	2-52.1/(2-52.2 blank) Added	7
2-9 through 2-16	7	3-1	7
2-17	2	3-2	5
2-18 through 2-18.2	7	3-3	7
2-18.3 and 2-18.4	2	3-4 and 3-5	0
2-18.5	5	3-6	2
2-18.6	7	3-7	1
2-18.7	5	3-8	0
2-18.8	2	3-9 and 3-10	7
2-19 and 2-20	7	3-10.1/(3-10.2 blank) Deleted	1
2-20.1 through 2-20.3/(2-20.4 blank) Added	7	3-11	5
2-21/(2-22 blank)	7	3-12	0
2-22.1/(2-22.2 blank)	5	3-13	5
2-23 through 2-25	5	3-14	1
2-26	1	3-15 through 3-16.4	7
2-27	2	3-16.5 through 3-16.8 Deleted	6
2-28	0	3-17 and 3-18	7
2-29 through 2-30.1/(2-30.2 blank)	7	(3-18.1 blank)/3-18.2	6
2-31 through 2-34	7	3-19 and 3-20	2
		3-21 through 3-24	0

ARMY TM 9-1005-201-23&P
MARINE CORPS TM 08671A-23&P/2A

Page No.	*Change No.	Page No.	*Change No.
3-25 through 3-34.1	7	C-12-1 and C-12A-1 Deleted	3
3-34.2	3	C-12B-1 and C-13-1	3
3-35 through 3-40	7	C-14-1	7
3-41	3	C-14A-1	6
3-42	5	Figure C-15	0
3-43	7	C-15-1	3
3-44	3	I-1 through I-13/(I-14 blank)	7
3-45/(3-46 blank)	7	D-1	0
(3-46.1 blank)/3-46.2	7	D-2	7
3-46.3/(3-46.4 blank)	3	E-1/(E-2 blank)	7
3-47 through 3-48.2	7	Index-1 through Index-7/(Index-8 blank)	7
3-48.3	2		
3-48.4	7		
3-48.5/(3-48.6 blank) Deleted	6		
3-49 and 3-50	7		
3-51	3		
3-52 through 3-54	0		
3-55	7		
3-56	5		
A-1	1		
A-2	7		
A-3/(A-4 blank)	5		
B-1 through B-3	0		
B-4	5		
B-5 and B-6	3		
B-7	6		
B-8	7		
B-9 and B-10	7		
C-1 through C-4	0		
C-5	3		
C-6	0		
C-7 and C-8	5		
C-9/(C-10 blank)	7		
C-1-1 through C-4-1	7		
C-4A-1 through C-4B-1 Deleted	3		
C-4C-1	3		
C-5-1	7		
C-6-1	7		
Figure C-7	0		
C-7-1	3		
Figure C-8	0		
C-8-1	3		
Figure C-9 and C-9-1	7		
Figure C-10 and C-10-1	7		
Figure C-11 and C-11-1 Deleted	3		
Figure C-11A and C-11A-1	7		

*Zero in this column indicates an original page

TECHNICAL MANUAL
ARMY NO. 9-1005-201-23&P
MARINE CORPS NO. 08671A-23&P/2A
TECHNICAL ORDER
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DEPARTMENTS OF ARMY,
MARINE CORPS AND AIR FORCE
Washington, DC., 14 December 1990

**TECHNICAL MANUAL
UNIT AND DIRECT SUPPORT
MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)
for
MACHINE GUN, 5.56MM, M249 w/EQUIP
(NSN 1005-01-127-7510) (EIC: 4BG) (AR ROLE)
(NSN 1005-01-451-6769) (EIC: 4BK) (LMG ROLE)**

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Marine Corps users submit NAVMC Form 10772 to: Commander, Marine Corps Logistics Base (Code 850), Albany, GA 31704-5000. Marine Corps units should also submit a copy to MARCORSYSCOM, ATTN: (CBG) Quantico, VA 22134-5080, or the NAVMC Form 10772 or via Naval message.

Air Force users submit AFTO Form 22, Technical Order System Publications Improvement Report, and reply to WR-ALC/LZDTA, Robins AFB, GA 31098-5609.

A reply will be furnished to you

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*This manual supersedes Army TM 9-1005-201-23&P and Marine Corps TM 08671A-23&P/2, 1 April 1984, including all changes.

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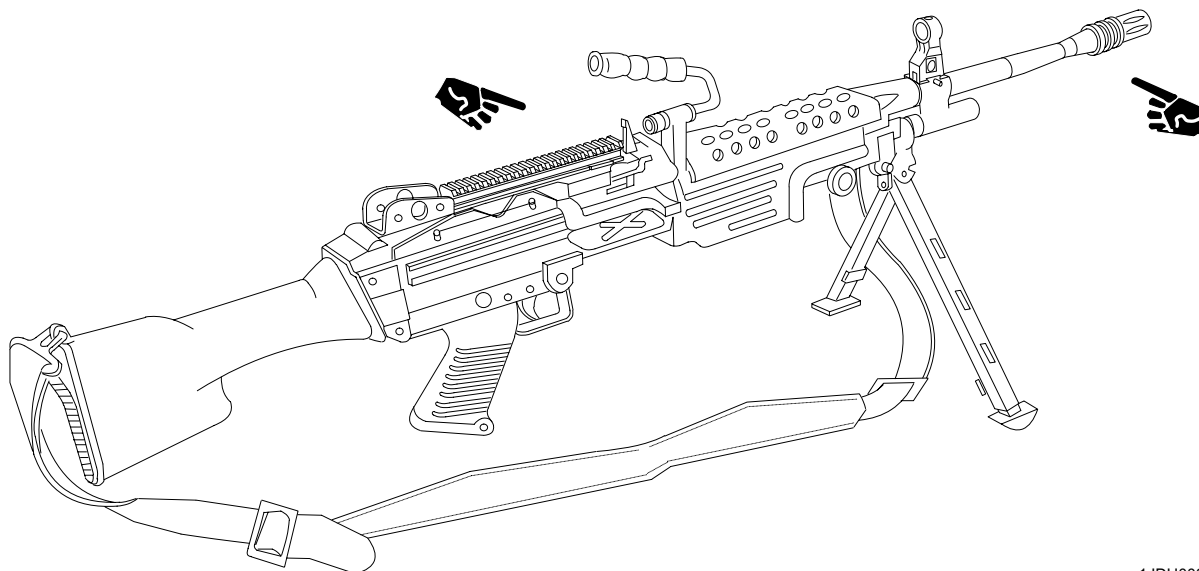
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NOMENCLATURE CROSS-REFERENCE LIST

COMMON NAME	OFFICIAL NOMENCLATURE
100 Round Assault Pack.....	Magazine Cartridge
Barrel	Barrel Assembly
Barrel Locking Lever	Lever, Barrel Locking
Buffer	Buttstock/Buffer Assembly
Buttstock	Buttstock and Buffer Assembly
Carrying Handle	Grip, Carrying Handle
Coil Spring	Spring, Helical, Compression
Collar	Collar, Gas Regulator
Cover Assembly	Cover/Feed Mechanism Assembly
Drive Spring	Spring, Helical, Compression
Feed Tray	Feed Tray Assembly
Flashhider	Flash Suppressor/Compensator
Guide Rod	Rod, Straight Headless
Hand Guard Gun	Guard Hand Gun Assembly
Heat Shield	Heat Shield Assembly
Inner Leg	Leg Section, Bipod
Leg Latch	Latch, Bipod
Machine Gun	Machine Gun, 5.56MM, M249 w/Equip
Outer Leg	Leg Section, Bipod
Plate Assembly	Plate Assembly, Locking
Plug	Plug, Gas Regulator
Rod Assembly	Rod, Return and Transfer Mechanism Assembly
Sear Spring	Spring, Helical, Torsion Sear
Trigger Housing	Trigger Mechanism Assembly



1JDU002

5.56MM Machine Gun, M249

CHAPTER 1 INTRODUCTION

CHAPTER OVERVIEW

This chapter contains general information and equipment description and data of the Machine Gun.

Section I. GENERAL INFORMATION

1-1. SCOPE.

a. Type of Manual: Unit and Direct Support Maintenance.

NOTE

Army Direct Support Maintenance is Third Echelon for USMC Users.

b. Model Number and Equipment Name: M249 Machine Gun, w/Equip (includes MWOs 9-1005-201-30-1, -2, -3, -4, and 9-1005-201-50-1).

1-2. MAINTENANCE FORMS, RECORDS AND REPORT.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System. USMC users will refer to TM 470015/1 for applicable forms and records.

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

Procedures and materials used for the destruction of the machine gun to prevent enemy use will be found in TM 750-244-7.

1-4. DEMILITARIZATION OF SMALL ARMS RESIDUE.

To prevent the unauthorized use of replaced (used) components/subassemblies of weapons and associated small arms equipment following repair, demilitarization will be accomplished IAW DOD 4160.21-M-1, Defense Demilitarization Manual.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR).

If your machine gun needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about the design. Put it on an SF 368 (Product Quality Deficiency Report). Mail to ATTN: AMSTA-LC-CIP-W, TACOM-Rock Island, 1 Rock Island Arsenal, Rock Island, IL 61299-7300. We'll send you a reply.

USMC users should submit SF 368 (QDR) in accordance with MCO 4855.10, to: Commander, Marine Corps Logistics Base (Code 808), Albany, GA 31704-5000.

Air Force users submit Materiel Deficiency Report (MDR) and Quality Deficiency Report (QDR) in accordance with TO 00-35D-54, TM, USAF, Materiel Deficiency Reporting and Investigating System, to WR-ALC/LZBS, Robins AFB, GA 31098-5330.

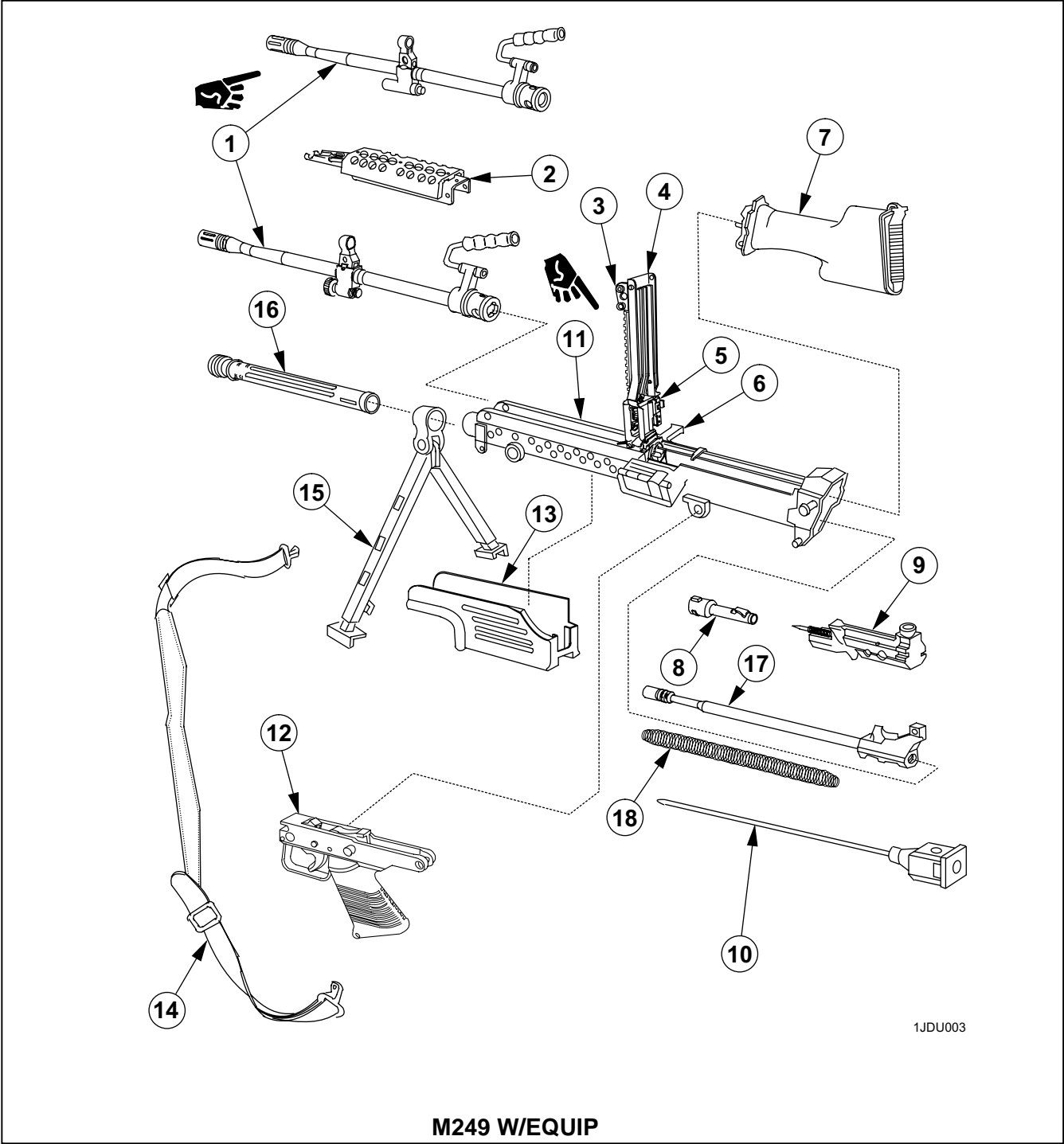
NOTE

The illustrations show the latest configuration M249 Machine Gun w/Equip. The text covers the new and old style components of the M249 Machine Gun.

Section II. EQUIPMENT DESCRIPTION AND DATA

1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES. See TM 9-1005-201-10/
TM 08671A-10/1A

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.



- | | | |
|-----|---|--|
| 1. | BARREL ASSEMBLY | Houses cartridge for firing and directs projectile. |
| 2. | HEATSHIELD ASSEMBLY | Provides protection for the operator's hand from a heated barrel. |
| 3. | REAR SIGHT ASSEMBLY | Rear sight is adjustable for both windage and elevation. |
| 4. | COVER AND FEED MECHANISM ASSEMBLY | Feeds linked belt, positions and holds cartridges in position for stripping, feeding, and chambering. Optics rail to mount various optics. |
| 5. | FEED TRAY ASSEMBLY | Positions belted ammunition for firing. |
| 6. | COCKING HANDLE ASSEMBLY | Pulls the moving parts backwards and moves in a guide rail fixed to the right side of the receiver. |
| 7. | BUTTSTOCK/BUFFER ASSEMBLY | Contains a folding buttplate. Serves as a shoulder support for aiming and firing machine gun. Contains a buffer to absorb recoil (New buttstock/buffer assembly only). |
| 8. | BOLT ASSEMBLY | Provides feeding, stripping, chambering, firing, and extraction, using the projectile gases for power. |
| 9. | SLIDE ASSEMBLY | Houses firing pin and roller assembly. |
| 10. | RETURN ROD AND TRANSFER MECHANISM ASSEMBLY | Absorbs recoil for bolt and operating rod assembly at the end of recoil movement. |
| 11. | RECEIVER ASSEMBLY | Serves as a support for all major components. Houses action of weapon and through a series of cam ways, controls functioning of weapon. |
| 12. | TRIGGER MECHANISM ASSEMBLY | Controls the firing of the machine gun. Provides storage area for lubricant in grip portion. |
| 13. | HAND GUARD ASSEMBLY | Provides thermal insulation to protect the operator's hands from heat or extreme cold and houses cleaning equipment. |
| 14. | SLING AND SNAP HOOK ASSEMBLY | Provides a means of carrying the weapon. |
| 15. | MACHINE GUN BIPOD | The telescopic legs individually adjust to three different lengths. |
| 16. | GAS CYLINDER ASSEMBLY | Locks bipod in place and provides passage-way for operating gases. |
| 17. | PISTON | Holds the bolt and slide assemblies and houses the return spring. |
| 18. | DRIVING SPRING | Returns bolt, slide and piston assemblies to locked position during counter-recoil cycle. |

1-7.1. DIFFERENCE BETWEEN MODELS.

The M249 has been designated as two separate models, the Automatic Rifle (AR) and Light Machine Gun (LMG). The basic M249 is the same for both versions. However during handoff, the LMG version is fielded with additional equipment as identified below.

AR ROLE: STD LIN M09009 – The AR role is to replace selected M16 rifles. The magazine cartridge (NSN 1005-01-334-1507) 100 round assault pack is included for the M249 AR model.

LMG ROLE: STD LIN M39263 – The LMG role is to replace selected M60 machine guns. The M249 LMG is fielded with the following equipment for the machine gun role:

1. Adapter Assembly, Tripod (NSN 1005-01-225-1156).
2. Adapter, Ammunition Bracket (NSN 1005-01-425-6541).

1-8. CORROSION, PREVENTION AND CONTROL (CPC).

CPC of materiel is a continuing concern. It is important any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in the future.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials such as rubber or plastic. Unusual cracking, softening, swelling, or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF 368, Product Quality Deficiency Report. Use of key words such as “corrosion”, “rust”, “deterioration”, or “cracking” will assure that the information is identified as a CPC problem.

The SF 368 should be submitted to: AMSTA-AR-QAW-C, TACOM-ARDEC, 1 Rock Island Arsenal, Rock Island, IL 61299-7300.

USMC users should submit SF 368 (QDR) in accordance with MCO 4855.10 to Commander, Marine Corps Logistics Base, Code 808, Albany, GA 31704-5000.

Air Force users submit Quality Deficiency Report (QDR) in accordance with TO 00-35D-54, TM, USAF, Materiel Deficiency Reporting and Investigating System, to WR-ALC/LZBS, Robins AFB, GA 31098-5330.

CHAPTER 2 UNIT MAINTENANCE INSTRUCTIONS

CHAPTER OVERVIEW

This chapter contains information regarding repair parts, special tools, common tools and equipment, instructions for service upon receipt, PMCS, troubleshooting, maintenance to keep the machine gun in good repair, and storage.

Section I. REPAIR PARTS, SPECIAL TOOLS, AND COMMON TOOLS AND EQUIPMENT

2-1. REPAIR PARTS.

Repair Parts are listed and illustrated in appendix C of this manual.

2-2. SPECIAL TOOLS.

Special tools authorized for unit maintenance are listed in appendix B and illustrated in appendix C.

2-3. COMMON TOOLS AND EQUIPMENT.

For authorized common tools and equipment refer to Modified Table of Organization and Equipment (MTOE) applicable to your unit.

Section II. SERVICE UPON RECEIPT

2-4. GENERAL.

When a machine gun is received, it is the responsibility of the user organization to determine whether the machine gun has been properly prepared for service by the supplying organization and whether it is in condition to perform its mission.

2-5. SERVICE UPON RECEIPT OF MATERIEL.

WARNING

Before starting the inspection DO NOT actuate the trigger until the weapon has been cleared. Inspect the chamber to be sure that it is empty. Check for obstructions in the barrel.

NOTE

Weapon must be inspected and/or gaged at least once annually for safety and serviceability. Guard and reserve weapons are to be gaged and inspected at least once every two years after initial gaging unless usage, deployment or other maintenance indicates a need for more frequent inspection/gaging after every training cycle. Regardless of weapon ownership, initial gaging/inspection will be one year after receipt of new or overhauled weapons. The appropriate interval starts at this time.

Condition code "A" weapons when received from a weapons manufacture or a DA overhaul program do not require gaging prior to first use. Scheduling of annual gaging should begin with the weapons receipt date.

US Marine Corps only requires to conduct acceptance limited technical inspection (LTI) to include gaging on all new or rebuilt weapons.

2-5. SERVICE UPON RECEIPT OF MATERIAL (Cont)

LOCATION	ITEM	ACTION	REMARKS
1. Container	Machine Gun	<p>Check unpacked equipment.</p> <p>a. Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF Form 364, Report of Item Discrepancy (ROID).</p> <p>b. Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies on SF 368 (QDR) in accordance with the instructions of DA PAM 738-750. USMC users should submit SF 368 (QDR) in accordance with MCO 4855.10.</p> <p>c. Check to see whether the equipment has been modified.</p>	See TM 9-1005-201-10 TM 08671A-10/1A
2. Machine Gun	Barrel Assembly and Spare Barrel Assembly	Remove corrosion inhibitor from barrels. Discard.	See TM 9-1005-201-10 TM 08671A-10/1A
	Machine Gun	a. Field-strip machine gun and inspect for missing parts.	See TM 9-1005-201-10 TM 08671A-10/1A
		b. Clean and lubricate.	See TM 9-1005-201-10 TM 08671A-10/1A
		c. Reassemble.	See TM 9-1005-201-10 TM 08671A-10/1A
		d. Function, using both belted and magazine fed dummy ammunition.	See TM 9-1005-201-10 TM 08671A-10/1A

Section III. PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)
QUARTERLY SCHEDULE

2-6. GENERAL.

- a. These services are to be performed by unit maintenance personnel with the assistance, when practical, of the operators/crew, who will clean and lubricate in accordance with TM 9-1005-201-10, TM 08671A-10/1A.

b. Perform PMCS every 90 days to keep the weapon ready for use.

c. If the weapon has not been used for 90 days, PMCS in the operator's manual (TM 9-1005-201-10, TM 08671A-10/1), should also be performed. If you see rust on a weapon, the PMCS must be done immediately.

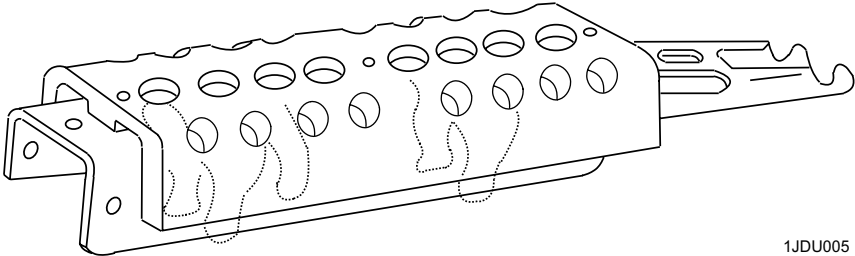
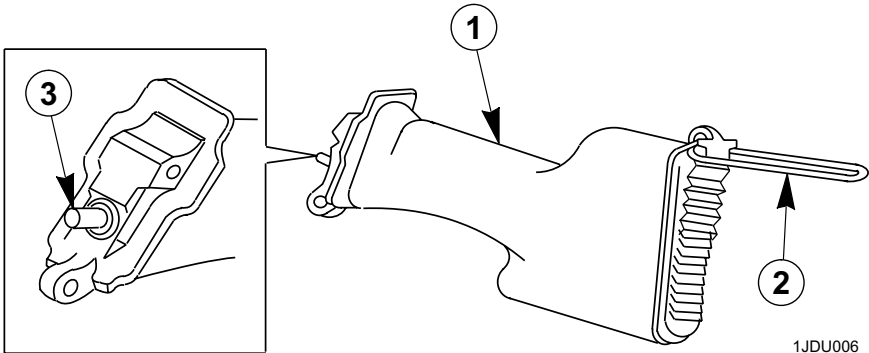
Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
1.			Machine Gun	Field-strip weapon (TM 9-1005-201-10, TM 08671A-10/1A). NOTE Prior to field stripping barrel assembly, check Collar (2) for looseness. Check for compliance with annual gaging requirements (headspace as minimum). Notify Direct Support Maintenance for scheduling of annual gaging.	
2.			Barrel Assembly and Spare Barrel Assembly	Check Barrel (1) for bulges, cracks, bends, burrs, obstructions or pits in chamber and bore, and loose front sights. Inspect Collar (2) for cracks or burrs. Make sure Compensator (4) is not cracked and fastened securely. Grip (5) should not be cracked or missing. Handle (6) should not be bent. Pull back on Handle (6) to make sure spring is not missing or weak.	Barrel assembly damaged. Suppressor cracked or loose.

NEW MONO BLOCK
STYLE BARREL

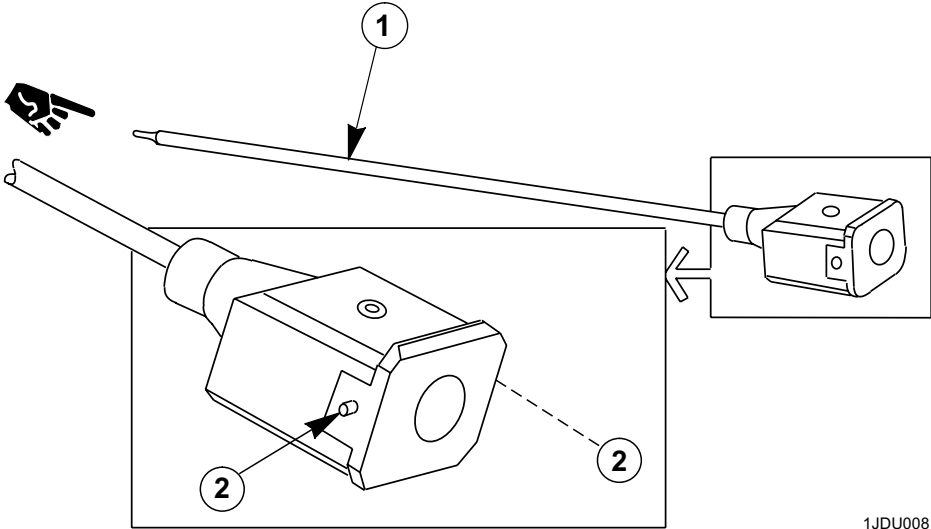
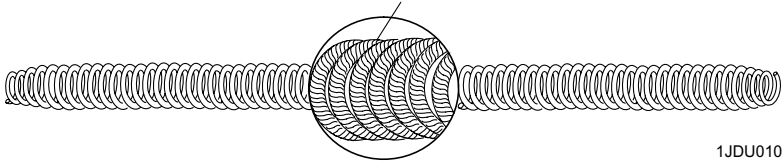
OLD STYLE BARREL

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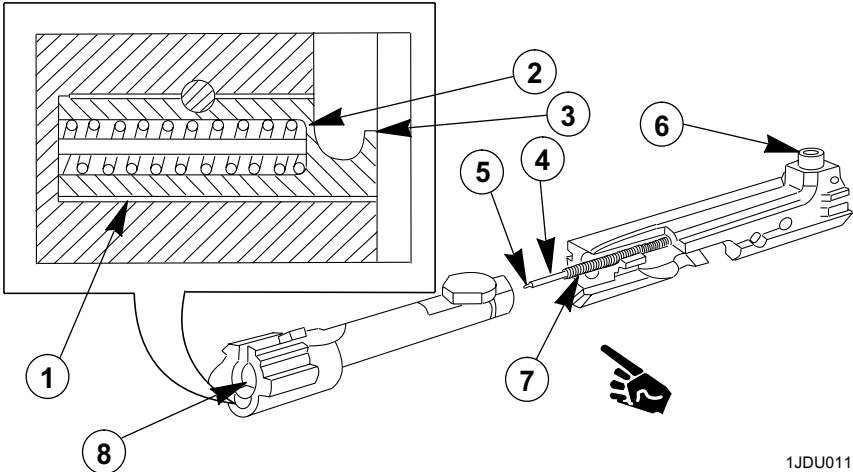
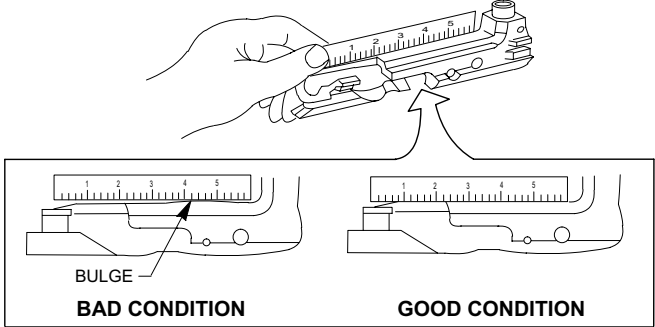
PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
3.			Heatshield Assembly	<p>Check heatshield for bent, broken or missing components.</p>  <p>1JDU005</p>	Bent, broken or components missing.
				<p>NOTE Some heat distortion or charring may be observed on the outer non-metallic portion of the heatshield assembly and is not cause for replacement.</p>	
4.			Buttstock/ Buffer Assembly	<p>Check Buttstock and Buffer Assembly (1) for cracks, breaks, or missing components. Ensure Shoulder Rest (2) locks in both positions.</p>  <p>1JDU006</p>	Cracked, broken, or components missing.
				<p>Push in on Buffer Plunger (3) to make sure spring is not broken or weak. Check for oil leaks on face of backplate.</p>	Spring broken, weak, or has leaks.

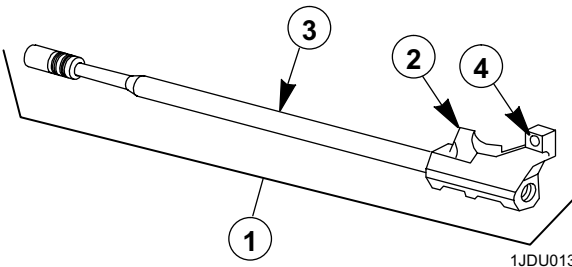
PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
5.			Return Rod and Transfer Mechanism Assembly	Inspect Guide Rod (1) for cracks, breaks or bends. Ensure two Pins (2) are not missing or broken.	Cracked, broken, or bent. Missing or broken Pins.
<div><p>1JDU008</p></div>					
6.			Spring, Helical Compression	Check spring for kinks, damaged or broken strands. Spring should not have more than one broken strand on the same coil, or more than two broken strands, regardless of location on entire spring.	Kinked, broken strands on the same coil or more than two regardless of location.
<div><p>1JDU010</p></div>					

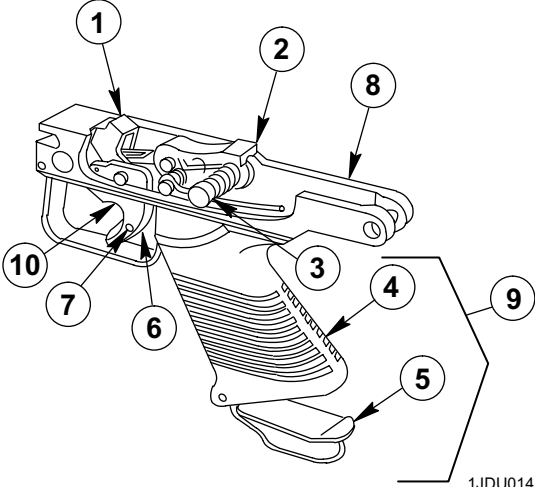
PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
7.			Bolt and Slide Assembly	<p>Check Cartridge Extractor (1) for cracks or weak Extractor Spring (2).</p> <p>NOTE</p> <p>A chipped/broken Extractor Claw (3), weak Extractor Spring (2) or impeded Extractor (1) can cause a weapon stoppage, more commonly referred to as a failure to extract malfunction.</p> <p>Check Firing Pin (4) for straightness and make sure the Tip (5) is completely rounded. Check Feed Roller (6) for spring tension when compressed. Check Firing Pin Spring (7) for kinks, breaks and retention capability. Inspect for pits on bolt face. Make sure that Firing Pin Hole (8) is round and not elongated.</p>	<p>Cracked or weak Extractor spring.</p> <p>Firing Pin bent or round tip, spring is weak, kinked or broken. Excessive pitting on face of bolt and/or elongated firing pin hole.</p>
				 <p>1JDU011</p>	<p>Bulged.</p>
				<p>Check for bulges on the top of slide assembly by placing a straight edge (such as a six inch steel rule) on the top and sighting across. If light is detected between the top of the slide assembly and the straight edge, a bulge exists.</p>  <p>1JDU012</p>	

PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
8.			Piston Assembly	<p>Inspect Piston Rod (1) for bends, breaks, burrs, or cracks. Inspect Tower Portion (2) and Tube Portion (3) for looseness. Inspect Hole (4) for cracks.</p> <p>NOTE</p> <p>Looseness between Tower Portion (2) and Tube Portion (3) can cause sluggish operation and contribute to malfunctions.</p>  <p>1JDU013</p>	Bent, broken, burred or cracked. Tube portion loose.
9.			Trigger Mechanism Assembly	<p>Inspect Tripping Lever (1) and Sear (2) for burrs on edges or shoulders. Push back on Tripping Lever (1) to raise Sear (2). Place Safety (3) in SAFE position (red band not visible). Pull Trigger (10), Sear (2) should not drop down far enough to lock in the downward position. Place Safety (3) in FIRE position (red band visible). Pull Trigger (10), Sear (2) should drop down and lock in the downward position. Check Grip Assembly (9) for cracks, and looseness between Pistol Grip (4) and Housing (8). Plate Assembly (5) should be present and functional. Check Sear Spring (6) to ensure the leg of spring is behind Trigger Pin (7) and not between the Trigger (10) and the Trigger Pin (7).</p>	<p>Trigger assembly is bent or damaged, preventing operation. Sear is excessively worn/cracked or broken.</p> <p>Safety does not function properly.</p> <p>Parts are missing/broken. Springs are deformed/weak and prevent proper functioning.</p>

PREVENTIVE MAINTENANCE (Cont)

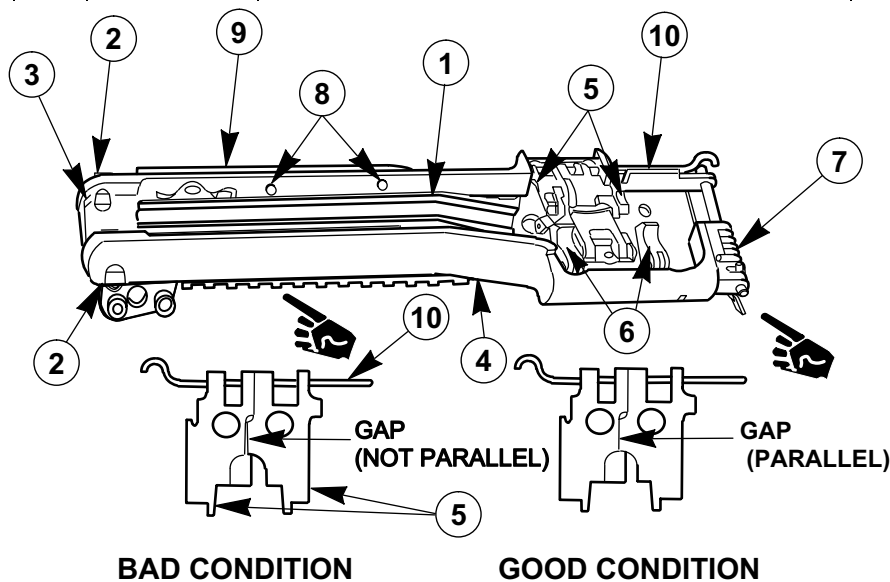
Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
9. (Cont.)			Trigger Mechanism Assembly (Cont.)	 <p>NOTE</p> <p>A bent or improperly installed Sear Spring (6) can cause the Trigger (10) to be extremely hard to pull. If this happens, the Sear (2) does not release the piston assembly and causes a weapon stoppage, more commonly referred to as a failure to fire malfunction. If the Sear Spring (6) is not bent or broken and is properly installed, but the Trigger (10) is hard to pull, the Tripping Lever (1) may be worn out.</p>	

PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
10.			Cover and Feed Mechanism Assembly (shown removed for clarity)	<p>Move Feed Lever (1) back and forth to make sure the feed mechanism operates smoothly without binding. Push in on the two Cover Latches (2) to make sure Retaining Clip (3) is not weak or missing and the Cover Latches (2) do not bind in Cover Assembly (4). Push on two Cartridge Guides (5) and two Feed Pawls (6) to make sure the springs are not weak, missing or improperly installed. NOTE: Weak or improperly installed springs under the feed pawls can allow the bolt to override the cartridge base and cause a weapon stoppage, more commonly referred to as a failure to feed/strip malfunction.</p> <p style="text-align: center;">NOTE</p> <p>Weak or improperly installed springs under the cartridge guides, can allow uncontrolled/loose rounds in the receiver mechanism during the feeding cycle and cause a weapon stoppage, more commonly referred to as a failure to chamber.</p>	Cover latch does not hold cover closed. Parts missing, loose, or damaged. Cover components do not operate smoothly.

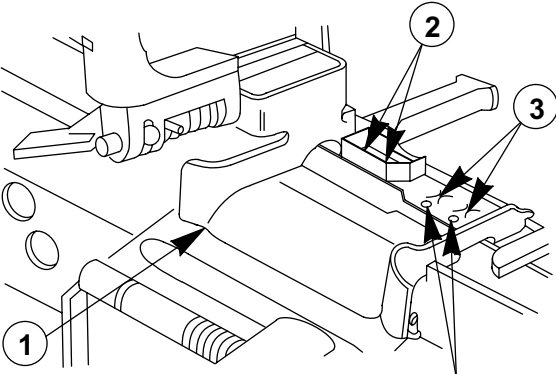
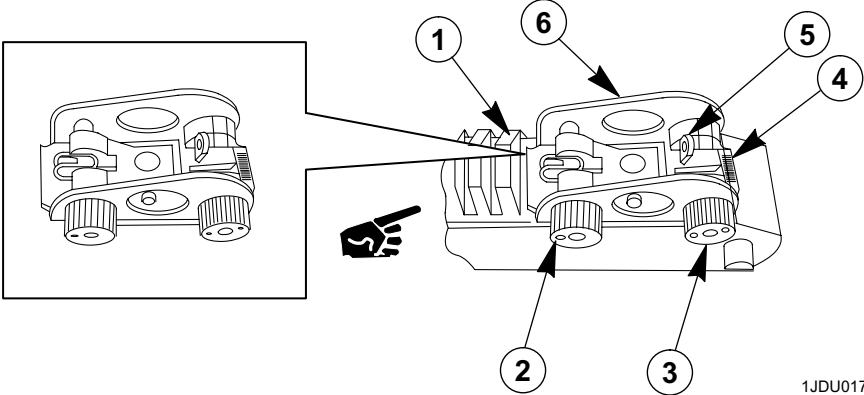
PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
10. (Cont.)			Cover and Feed Mechanism Assembly (shown removed for clarity) (Cont.)	<p>Ensure cover fully opens under spring tension.</p> <p>NOTE</p> <p>It is extremely important that when the Cover is fully open the cover catch hooks under the barrel locking lever. This assures sufficient access to the feed tray during loading.</p> <p>Ensure two Pins (8) are in place and that Cover, Cocking Channel (9) functions properly under spring tension.</p> <p>Ensure Hinge Pin Retaining Pin (10) is not bent. This can be checked by rotating the Hinge Pin Retaining Pin (10) and observing any change in the parallel gap between the Cartridge Guides (5) during the rotation of the pin. It is not necessary to disassemble the cartridge guides and hinge pin retaining pin to perform this check</p> <p>NOTE</p> <p>Bent hinge pins can allow a spreading of the cartridge guides and cause a weapon stoppage, more commonly referred to as a failure to chamber malfunction.</p>	Broken, bent or missing parts.

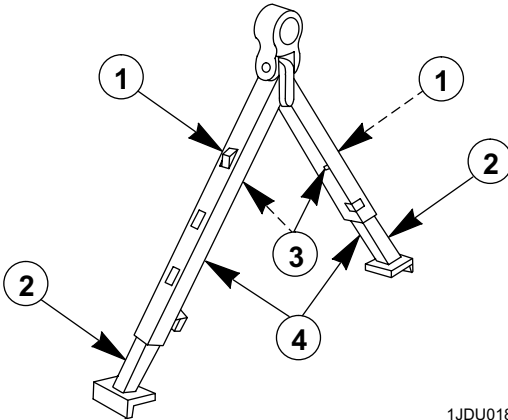
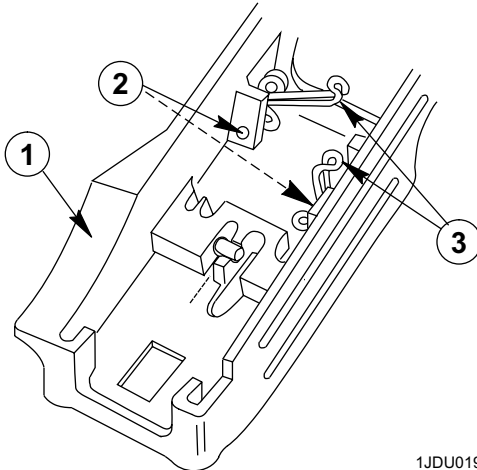


1JDU015

PREVENTIVE MAINTENANCE (Cont)

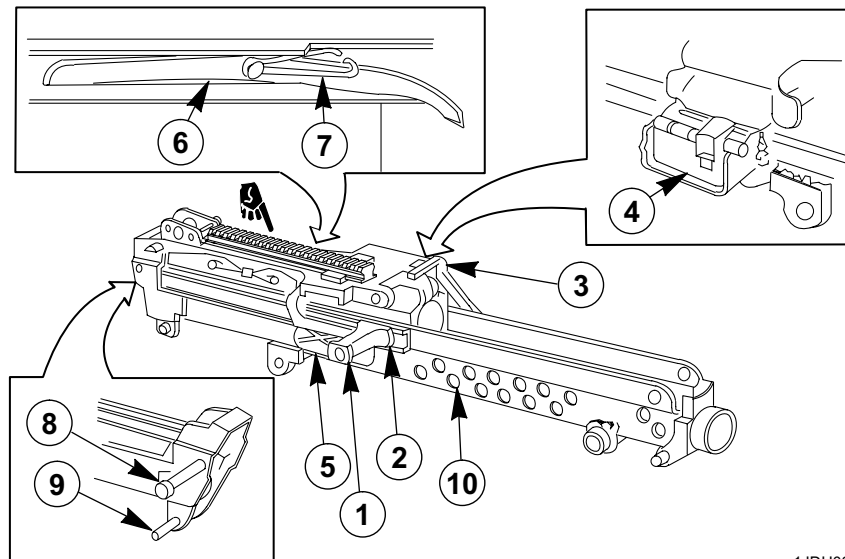
Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
11.			Feed Tray	<p>Check Feed Tray (1) for cracks, deformation, and two Rivets (2) for looseness. Check for gouges just below the depressions of the Link Locators (3).</p> <p>NOTE</p> <p>Severe gouges can catch the link ends which can contribute to feeding malfunctions.</p>  <p>GOUGES</p> <p>1JDU016</p>	Feed tray cracked or distorted. Gouges deep enough to cause malfunctions.
12.			Rear Sight Assembly	<p>Assure Rear Sight (6) is securely attached to Cover (1). Check Windage Knob (2) and Elevation Knob (3), for looseness, binding, or slippage. Ensure Windage Scale (4) is readable, not bent or missing. Ensure Peep Sight (5) is not bent or damaged.</p>  <p>1JDU017</p>	Rear Sight is loose, Windage/elevation knobs do not rotate. Parts are missing, bent, damaged, or broken.

PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
13.			Bipod Assembly	<p>Check both Bipod Legs (4) for cracked, twisted or incomplete assembly. Press in on Leg Latch (1) and move Inner Leg (2) until it locks in the next slot. Inner Leg (2) must not bind. Inspect Bipod Legs (4) to ensure they remain spread apart under spring tension</p> <p>NOTE Spring Pins (3) protrude on inside of Bipod Legs (4).</p>  <p>1JDU018</p>	Bipod legs do not extend, retract, or remain locked. Parts are missing, bent, damaged, or broken.
14.			Handguard Assembly	<p>Check Handguard (1) for cracks; two missing or broken Retaining Pins (2) or Retaining Clips (3).</p> <p>NOTE Some heat distortion or charring may be observed on Handguard (1) and is not cause for replacement.</p>  <p>1JDU019</p>	Cracked, missing or broken parts. Handguard Assembly does not latch in position.

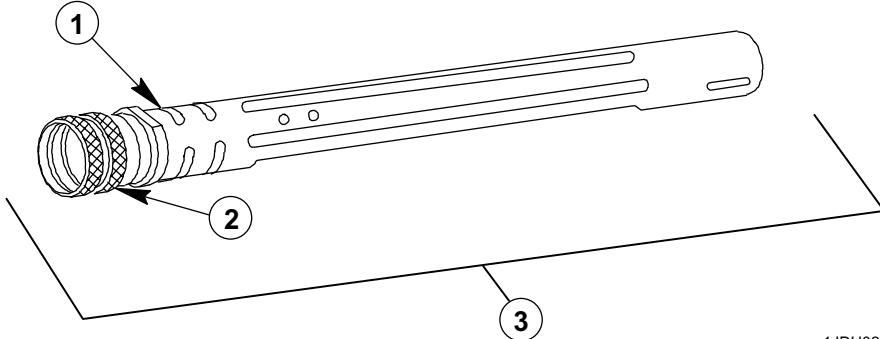
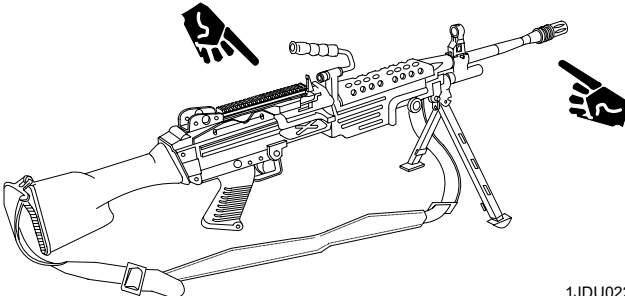
PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
15.			Receiver Assembly	<p>Check Cocking Handle (1) for cracks or distortions, and make sure when handle is pushed all the way forward, that the detent secures it in the groove of the New Style Cocking Handle Stop (2) or behind the Old Style Pin Stop (2). Push in on the Barrel Locking Lever (3) to make sure the lever spring is not missing or weak. Check the Magazine Cover (4) for spring tension, it should return to the closed position when pushed in. Check the Ejection Port Cover (5) for spring tension and latching function. Check the Ejector (6) for chipped, distorted, or rounded tip.</p> <p style="text-align: center;">NOTE</p> <p>A chipped, distorted or rounded tip on the Ejector (6) can cause a weapon stoppage, more commonly referred to as a failure to eject.</p> <p>Check Ejector Clip (7) for tension. Ensure Pins (8) and (9) are securely held in receiver when pushed fully to the left. Check the receiver (10) for presence of black surface finish and make sure surfaces do not reflect light.</p>	Barrel will not lock in receiver. Cocking handle does not function without binding. Finish is missing from one third or more of the receiver. Missing, cracked or distorted parts.



1JDU020

PREVENTIVE MAINTENANCE (Cont)

Item No.	Inter-val	Man-Hour	Item To Be Checked or Serviced	Procedure	Not Fully Mission Capable If:
16.			Gas Cylinder Assembly	Inspect Gas Cylinder Assembly (3) for cracks or distortions, or for gas leakage (White deposit) between Cylinder (1) and Knurled Head (2).	Cracked, distorted or gas leaks.
					
17.			Machine Gun M249	<p>NOTE Gas leakage between the Cylinder (1) and Knurled Head (2) can cause sluggish operation and contribute to malfunctions.</p> <p>Assemble weapon (TM 9-1005-201-23&P) (TM 08671A-10/1A). Ensure parts are in good working condition. Assure cocking handle assembly charges the weapon without overriding the slide assembly. Check weapon functioning using linked DUMMY ammunition (TM 9-1005-201-23&P) (TM 08671A-10/1A).</p> 	<p>1JDU021</p> <p>Parts worn, missing, cocking handle overrides, and weapon won't function.</p>
18.			Machine Gun M249	<p>Ensure annual headspace gaging and inspection has been done and that the next gaging and inspection are scheduled. As a minimum requirement, for Active Duty M249 machine guns headspace, gaging and inspection for both weapon and spare barrel assembly should be verified annual by Direct Support Maintenance. This requirement could be increased to four times a year, or after each training cycle, depending on usage factors. For Army Reserve and National Guard weapons, the period is 2 years unless inspection shows need for gaging more often due to usage.</p>	<p>1JDU022</p> <p>Headspace gaging and inspection not performed.</p>

PREVENTIVE MAINTENANCE (Cont)

PMCS MANDATORY REPLACEMENT PARTS LIST

There is a mandatory replacement for the four components of the extractor group. If any one of the four components fail, you must replace all four components.

<u>Item No.</u>	<u>P/N</u>	<u>NSN</u>	<u>Nomenclature</u>	<u>Qty</u>
1.	12540400	N/A	Extractor, Cartridge	1
2.	9350086	N/A	Pin, Extractor	1
3.	9348415	N/A	Spring	1
4.	9348416	N/A	Pin, Straight	1

NOTE: The above four components of the extractor group are contained in a repair kit:

<u>P/N</u>	<u>NSN</u>	<u>Nomenclature</u>	<u>Qty</u>
12557025	1005-01-383-0168	Parts Kit, Gun Extractor	1

Section IV. TROUBLESHOOTING

2.7. UNIT MAINTENANCE TROUBLESHOOTING.

a. This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the machine gun. Each malfunction for a part, assembly, or subassembly is followed by a list of tests or inspections which will help you to determine corrective actions to take. You should perform the tests/inspections and corrective actions in the order listed.

b. This manual cannot list all possible malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction and cause are obvious) or is not corrected by listed corrective actions, notify Direct Support Maintenance.

2-8. TROUBLESHOOTING PROCEDURES.

MALFUNCTION INDEX

	Troubleshooting Procedure Page
Sluggish operation	2-11
Failure to charge	2-13
Failure to feed/strip	2-16
Failure to chamber	2-17
Failure to fire	2-18.1
Failure to extract	2-18.2
Failure to eject	2-18.3
Stops Firing	2-18.5
Failure to cock or runaway gun	2-18.7
Failure to lock weapon in open bolt position	2-18.8

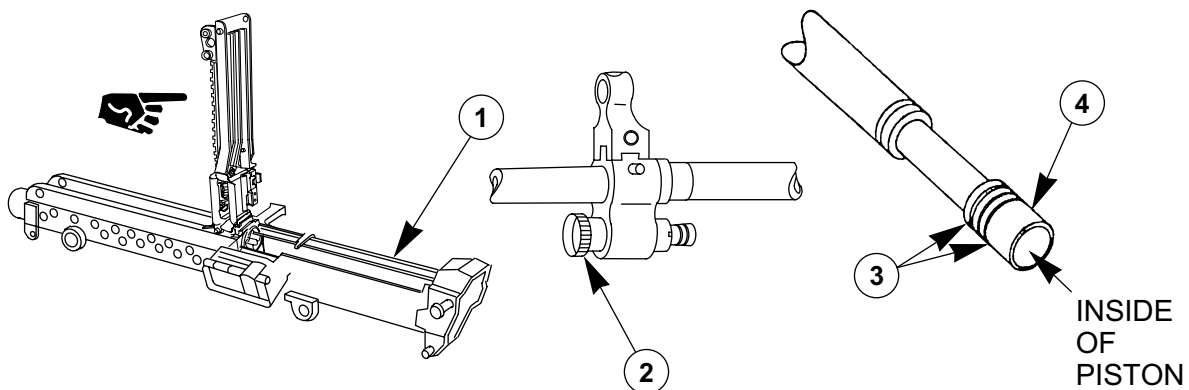
TROUBLESHOOTING

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. SLUGGISH OPERATION.

- Step 1. Check for dirty Receiver Assembly (1) and lack of, or excess lubricant. Clean and lubricate as required.
- Step 2. Insufficient gas pressure. Check for loose Gas Collar (2) and replace if defective.
- Step 3. Insufficient gas pressure. Check for caked carbon in grooves (3) and inside of Piston (4). Clean as required.

NOTE
DO NOT Lubricate piston (4).



1JDU023

TROUBLESHOOTING (Cont)

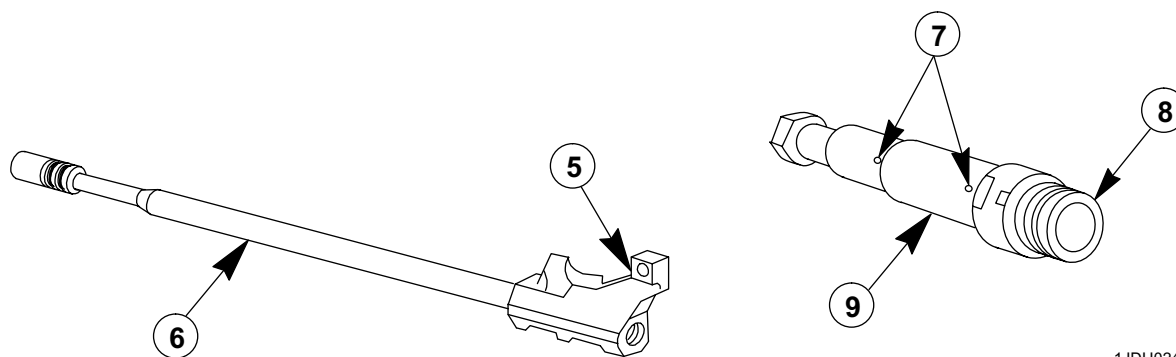
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. SLUGGISH OPERATION (Cont).

- Step 4. Check for looseness between Tower Portion (5) and Tube Portion (6). If looseness exists, notify Direct Support Maintenance.
- Step 5. Insufficient gas pressure. Check for caked carbon in Inlets (7) and Outlet (8) of Gas Regulator (9). Clean as required.

NOTE

DO NOT lubricate Gas Regulator (9).

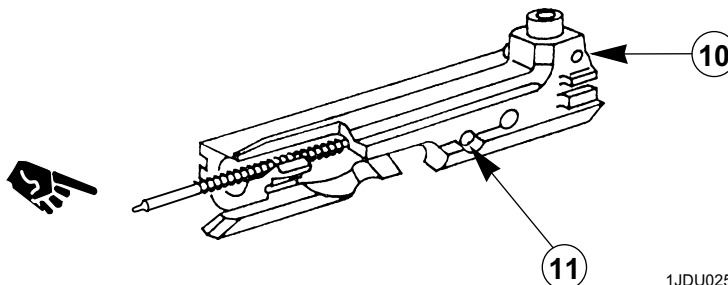


1JDU024

- Step 6. Check for binding of Slide Assembly (10) in receiver. If binding occurs, check for improperly assembled Firing Pin Retaining Pin (11). The firing pin retaining pin must be flush or below the body of the slide assembly on the left side of the slide. See maintenance instructions for slide assembly.

NOTE

If the Firing Pin Retaining Pin (11) is not flush or below the surface of the body, it can interfere with the internal rail of the receiver. It will drag on the rail and slow the functioning.



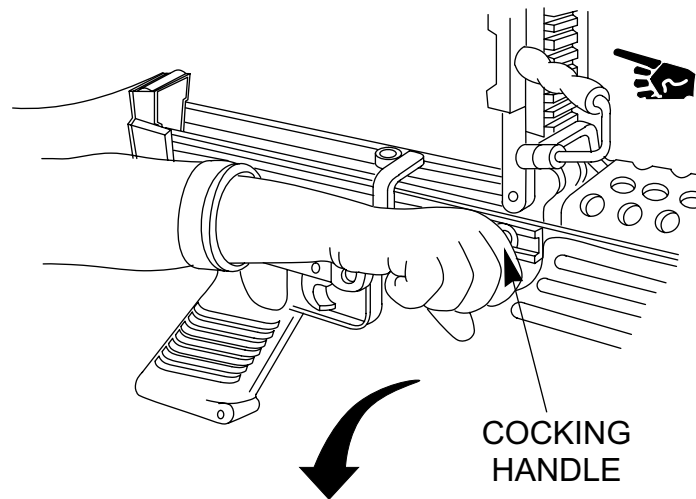
1JDU025

TROUBLESHOOTING (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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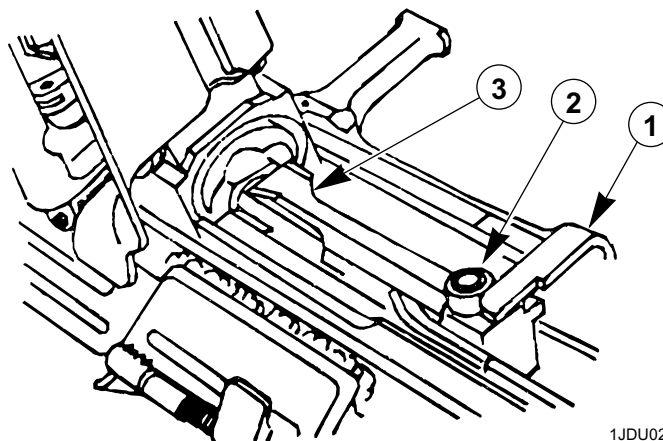
2. FAILURE TO CHARGE.

Step 1. Slide overridden. Open cover before checking. To check for this condition, the organizational mechanic is authorized to apply downward pressure (palm down) on the cocking handle assembly while charging the weapon.



1JDU026

A loose fit between the cocking handle assembly and the receiver can cause an override condition (failure to charge malfunction). The malfunction is characterized by the Cocking Handle Arm (1) overriding the Slide Assembly (3) and slipping behind the Roller Assembly (2).



1JDU027

TROUBLESHOOTING (Cont)

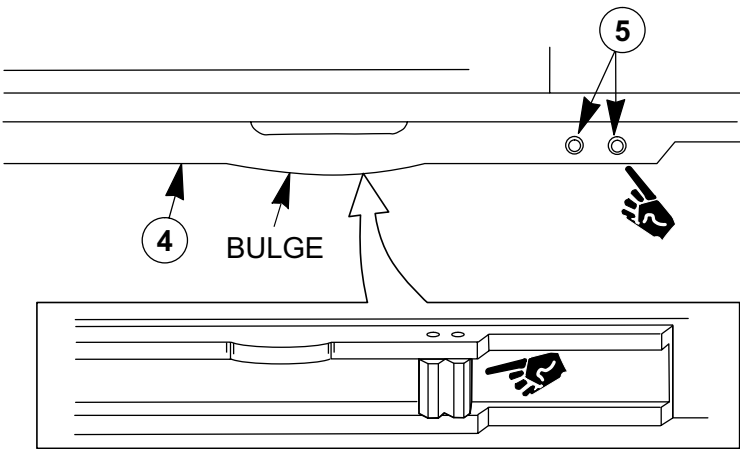
MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

2. FAILURE TO CHARGE (Cont).

NOTE

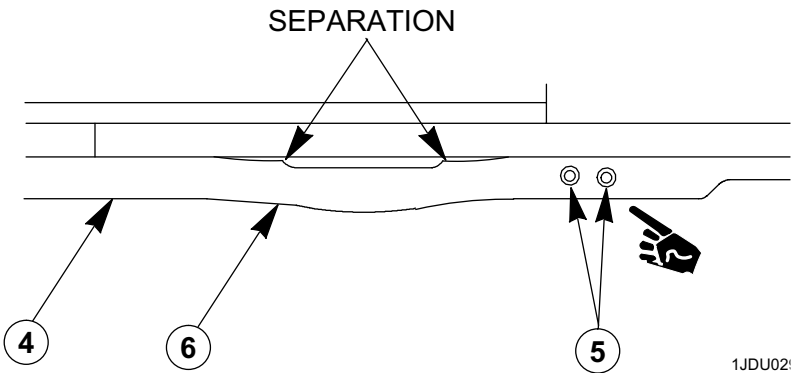
Several conditions can cause extreme looseness between the cocking handle assembly and the receiver. Looseness should be diagnosed in the following order:

- a. Check the upper rail of the Cocking Handle Channel (4) for a bulge just rear of the Cocking Handle Stop (5). If this condition exists, notify Direct Support Maintenance.



1JDU028

- b. Check the Cocking Handle Channel (4) for separation from Receiver (6).



1JDU029

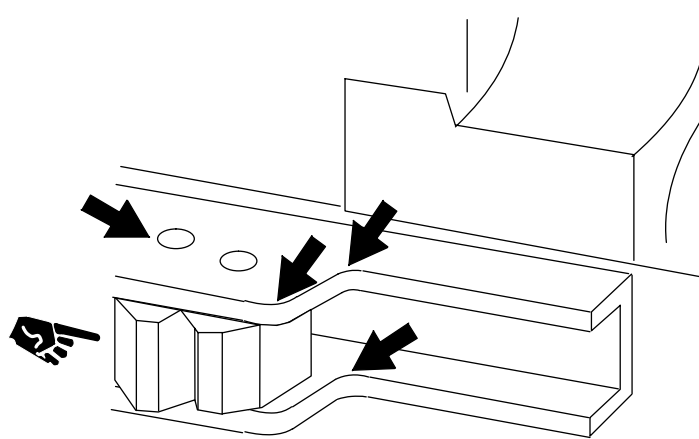
NOTE

Separation generally occurs in the cut-out area just rear of the Cocking Handle Stop (5). If this condition exists, notify Direct Support Maintenance.

TROUBLESHOOTING (Cont)

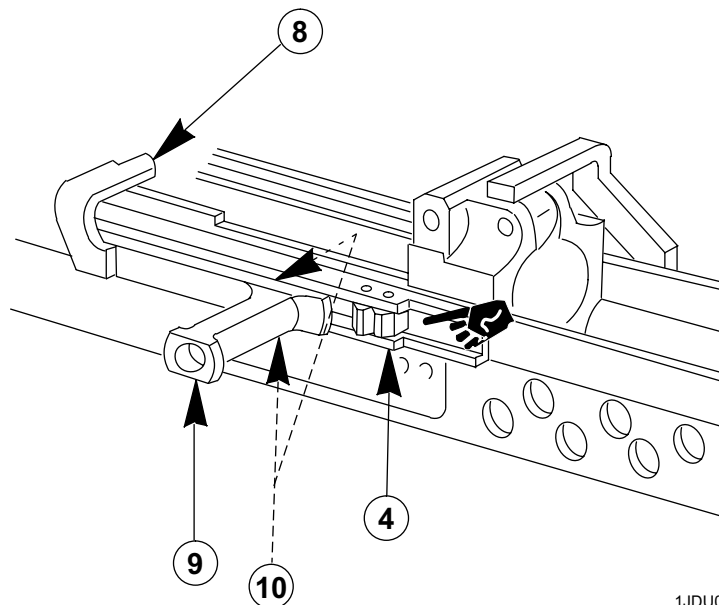
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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- c. Check for cracks in areas indicated with arrows (around the Retaining Pin Holes and the radii of Cocking Handle Channel). If cracks exist, notify Direct Support Maintenance.



1JDU030

- d. Check for bent Arm (8) on Cocking Handle Assembly (9). If bent, notify Direct Support Maintenance. Check cocking handle assembly for wear of the Feet (10) that travel inside the rails of the Cocking Handle Channel (4). Wear is difficult to determine, since the feet are internal to the channel. However, if the channel is not bulged or separated, wear on the feet of the cocking handle can be assumed and Direct Support Maintenance should be notified.



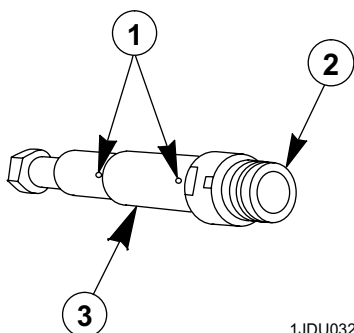
1JDU031

TROUBLESHOOTING (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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3. FAILURE TO FEED/STRIP.

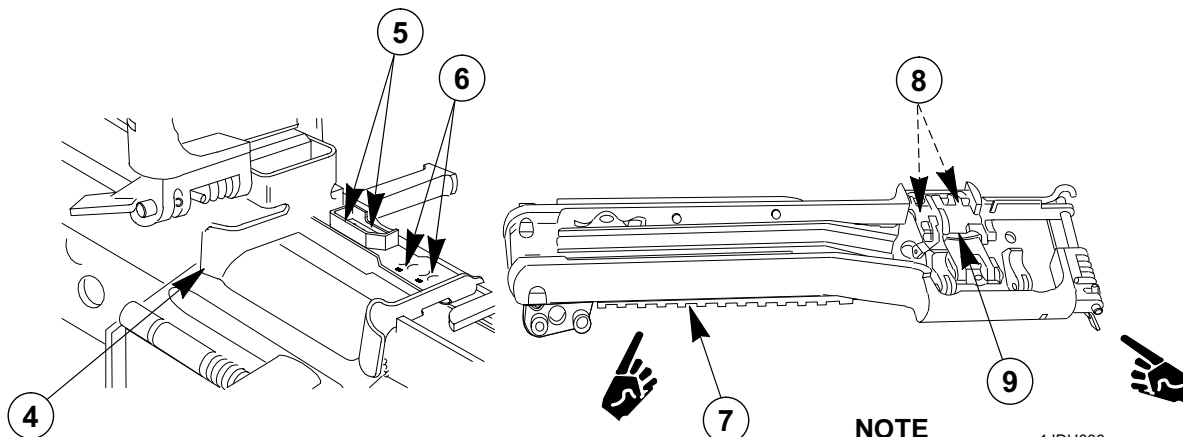
Step 1 - Insufficient gas pressure. Check for caked carbon in Inlets (1), Outlet (2) of Gas Regulator (3). Clean as required.



NOTE
DO NOT lubricate Gas Regulator (3).

Step 2. Check Feed Tray (4) for cracks, damaged or loose Rivets (5), and gouges in area (6).

Check for damaged, weak or worn operating parts in Cover and Feed Mechanism Assembly (7). If defective, notify Direct Support Maintenance.

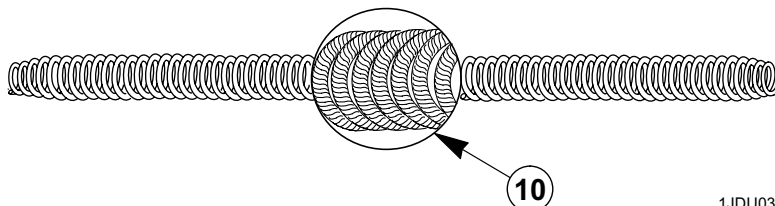


NOTE
Cover and Feed Mechanism Assembly (7) shown removed for clarity.

Step 3. Check for broken, improperly assembled, or missing Springs (8) under the Cartridge Guides (9). If defective, notify Direct Support Maintenance.

NOTE
A fail to feed/strip can occur when the plastic feed strap of the 200 round magazine is not used and the operator incorrectly positions the first round of a partial belt on the feed tray.

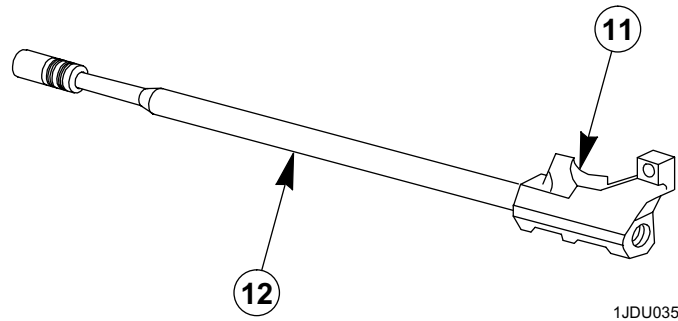
Step 4. Check for damaged Driving Spring (10). Replace Driving Spring, if more than one broken strand is found on same coil or if more than two strands are broken regardless of location on entire spring.



TROUBLESHOOTING (Cont)

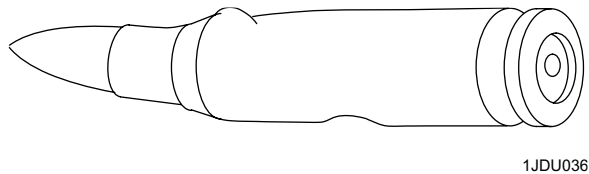
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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Step 5. Check for looseness between Tower Portion (11) and Tube Portion (12). If looseness exists, notify Direct Support Maintenance.



4. FAILURE TO CHAMBER.

Step 1. Failure to chamber malfunction is characterized by a round of ammunition not fully seating in the barrel because the bolt rides under the round. The unchambered round usually exhibits a damaged/bent condition similar to the illustration.



Several conditions can cause the round to not fully chamber and should be diagnosed in the following order:

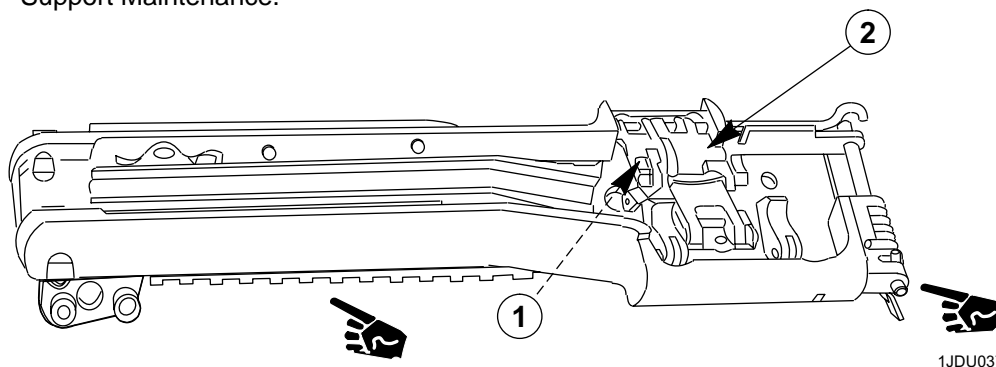
- Check for a spent cartridge case in the bottom of the receiver which would not allow the bolt to fully chamber a round. If a spent cartridge is found in the bottom of the receiver, refer to failure to extract and failure to eject malfunction troubleshooting procedures.

TROUBLESHOOTING (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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4. FAILURE TO CHAMBER (Cont).

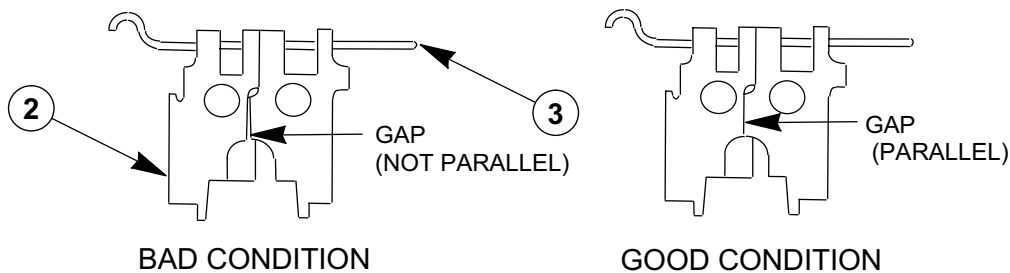
- b. Check for missing, weak or improperly installed Springs (1) under the Cartridge Guides (2). If any of these conditions exist, notify Direct Support Maintenance.
- c. Check for chipped, broken, or bent Cartridge Guides (2). If damaged, notify Direct Support Maintenance.



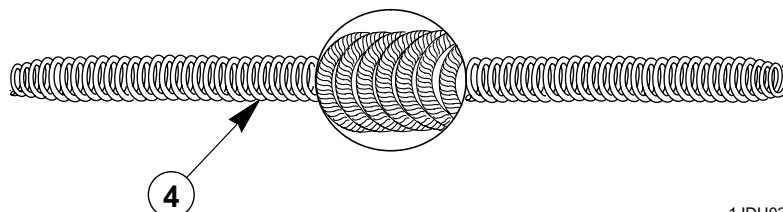
- d. Check for bent Hinge Pin Retaining Pin (3) by rotating the pin and observing any change in the parallel gap between the Cartridge Guides (2). If bent, notify Direct Support Maintenance.

NOTE

It is not necessary to disassemble the Cartridge Guides (2) and Hinge Pin Retaining Pin (3) to perform this check.



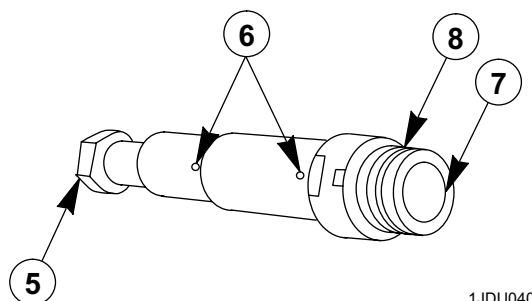
- Step 2. Check for kinked, damaged, or broken Driving Spring (4). Replace driving spring if kinked or damaged and if more than one broken strand is found on same coil or if more than two strands are broken regardless of location on entire spring.



TROUBLESHOOTING (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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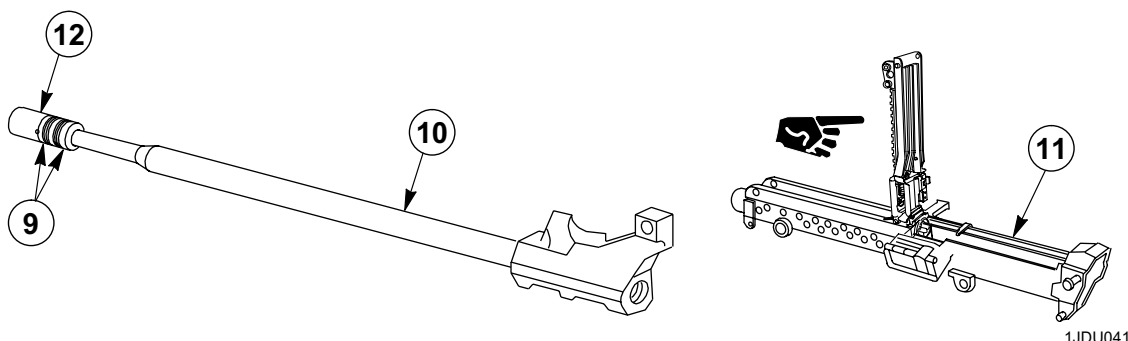
Step 3. Check for damaged Gas Regulator (5). Replace gas regulator if cracked or damaged.



Step 4. Check for caked carbon in Gas Inlets (6), Outlet (7), Grooves (8) of Gas Regulator (5), Grooves (9) of Gas Piston Assembly (10), or Receiver Assembly (11). Clean and lubricate as required.

NOTE

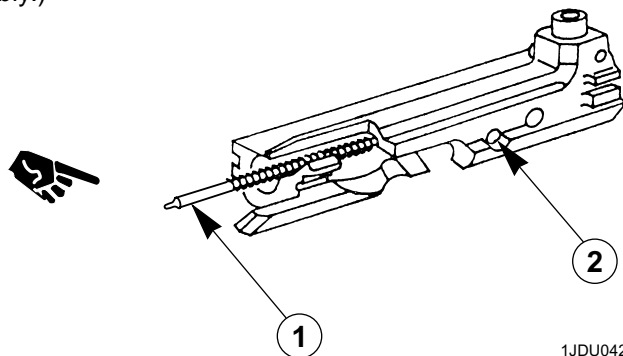
DO NOT lubricate inside or outside of Gas Regulator (5) and inside or outside of Gas Piston (12).



5. FAILURE TO FIRE.

Step 1. Check for broken or damaged Firing Pin (1). Replace firing pin. (See maintenance instructions for slide assembly.)

Step 2. Check for improperly installed Firing Pin Retaining Pin (2). Firing pin retaining pin must be flush or below surface of the slide body (left side). (See maintenance instructions for slide assembly.)

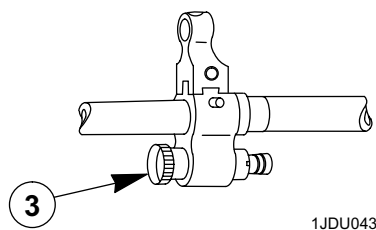


TROUBLESHOOTING (Cont)

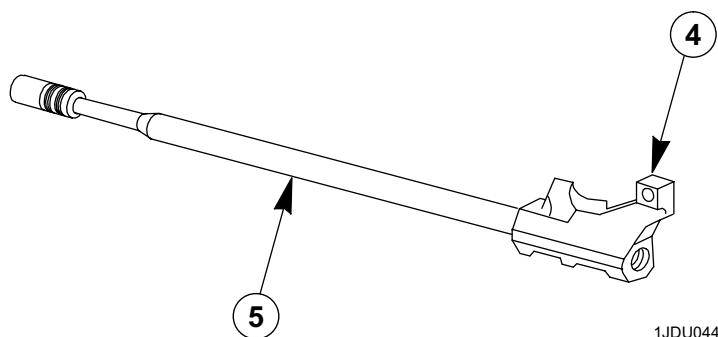
MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

5. FAILURE TO FIRE (Cont).

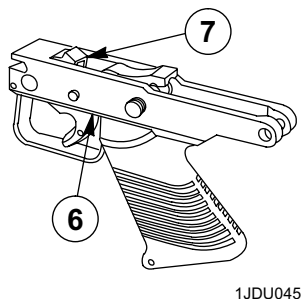
Step 3. Check for loose Gas Collar (3) on Old Style barrel and replace if defective.



Step 4. Check for looseness between Tower Portion (4) and Tube Portion (5). If looseness exists, notify Direct Support Maintenance.



Step 5. If trigger is hard to pull, check for improperly installed Sear Spring (6) or worn out Tripping Lever Mechanism (7). If Sear Spring (6) is improperly installed (leg between trigger and trigger pin) or the Tripping Lever Mechanism (7) is suspected of being worn out, notify Direct Support Maintenance.



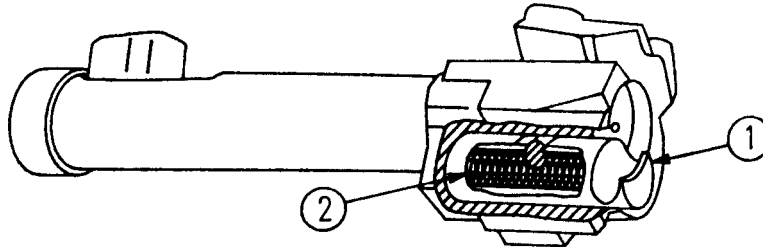
6. FAILURE TO EXTRACT.

Step 1. Failure to extract malfunction is characterized by a spent cartridge case not clearing the chamber or clearing the chamber but not clearing the ejection port. If the spent cartridge clears the chamber but does not clear the ejection port, it can cause a failure to chamber malfunction. The spent cartridge case usually exhibits the “crunched” condition similar to the illustration and can be found in the bottom of the receiver assembly.

TROUBLESHOOTING (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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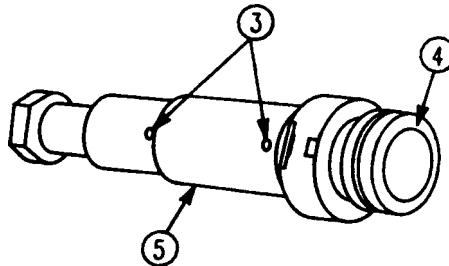
- Step 2. Check for damaged or broken Extractor (1). Check Extractor Spring (2) for tension by depressing Extractor (1). Replace unserviceable parts. See maintenance instructions of bolt assembly.



- Step 3. Insufficient gas pressure. Check for caked carbon in Inlets (3), Outlet (4) of Gas Regulator (5). Clean and lubricate as required.

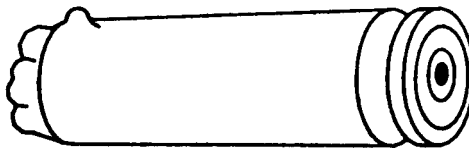
NOTE

DO NOT lubricate Gas Regulator (5).



7. FAILURE TO EJECT.

- Step 1. Failure to eject malfunction is characterized by a spent cartridge case not clearing the ejection port opening and remaining in the mechanism. The spent cartridge case usually exhibits the "crunched" condition similar to the illustration and can be found in the bottom of the receiver assembly.



TROUBLESHOOTING (Cont)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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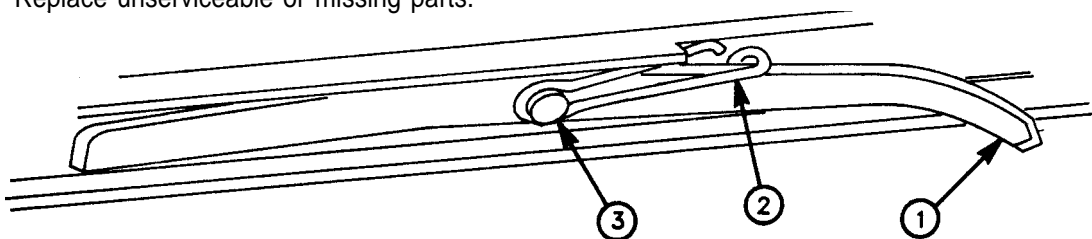
7. FAILURE TO EJECT (Cont).

Check for chipped, distorted or rounded tip on Ejector (1), bent, broken or missing Ejector Clip (2) or damaged or missing Ejector Pin (3). (See maintenance instructions of receiver assembly.)

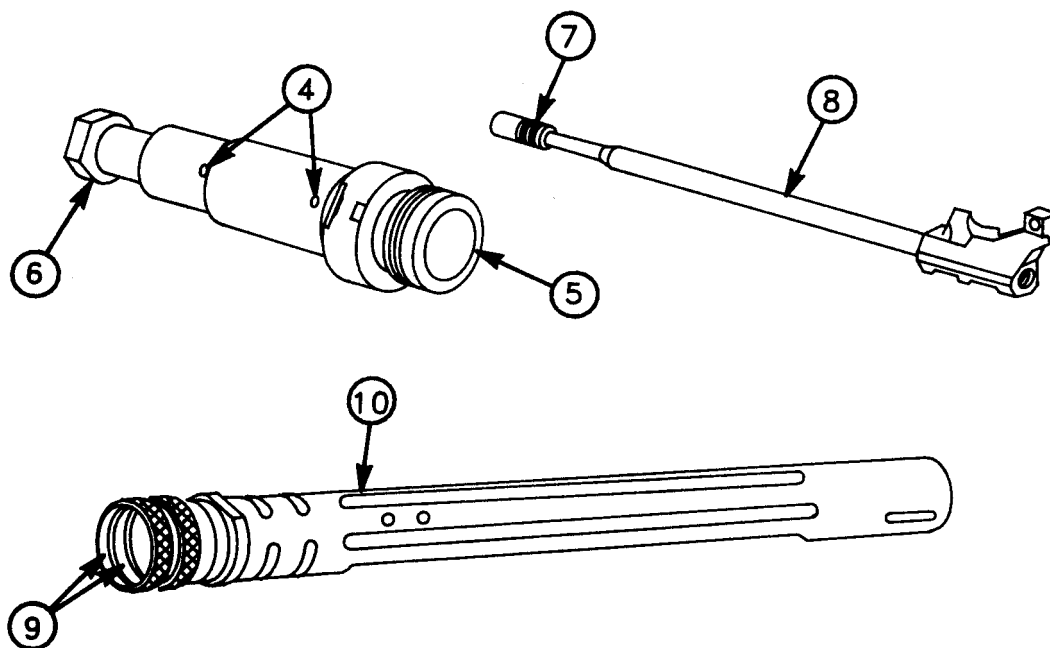
NOTE

Tip of ejector must be well defined to ensure proper ejection.
Cleaning rods can easily damage ejector tips when they are used to assure weapons are cleared on the training ranges.

Replace unserviceable or missing parts.



Step 2. Insufficient gas pressure. Check for caked carbon in Inlets (4), Outlet (5) of Gas Regulator (6); grooves in Gas Piston (7) of Gas Piston Assembly (8); and Internal Grooves (9) of Gas Cylinder Assembly (10). Clean and lubricate as required.



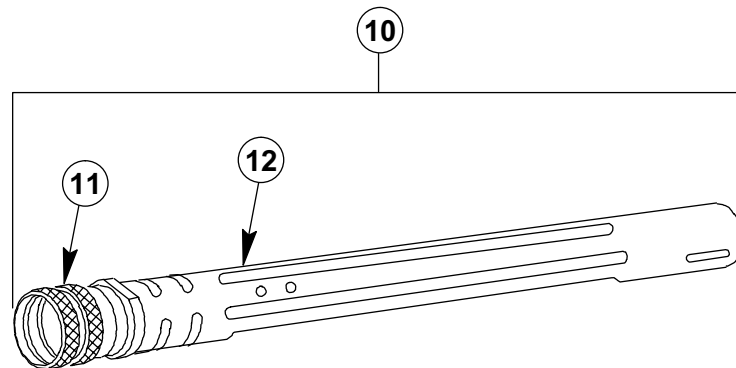
NOTE

DO NOT lubricate Gas Regulator (6), Piston (7) of Piston Assembly (8) and Inside of Gas Cylinder Assembly (10).

TROUBLESHOOTING (Cont)

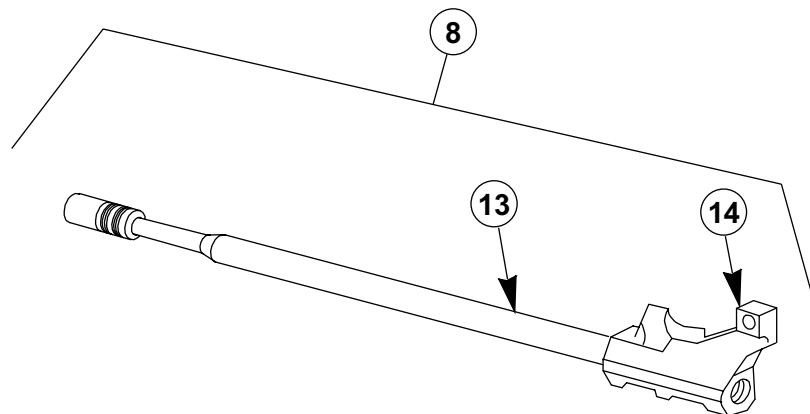
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
-------------	--------------------	-------------------

Step 3. Check for gas leakage (white deposit) between Cylinder (12) and Knurled Head (11) of Gas Cylinder (10). If evidence of gas leakage is present, replace Gas Cylinder Assembly (10).



1JDU051

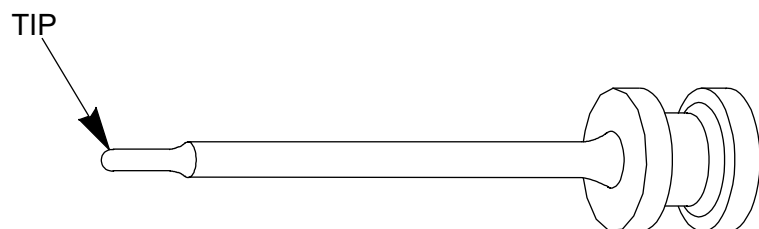
Step 4. Check for looseness between the Tube Portion (13) and the Tower Portion (14) of Gas Piston Assembly (8). If looseness exists, notify Direct Support Maintenance.



1JDU052

8. STOPS FIRING.

Step 1. Check for broken or worn firing pin tip. If tip is damaged, replace firing pin.



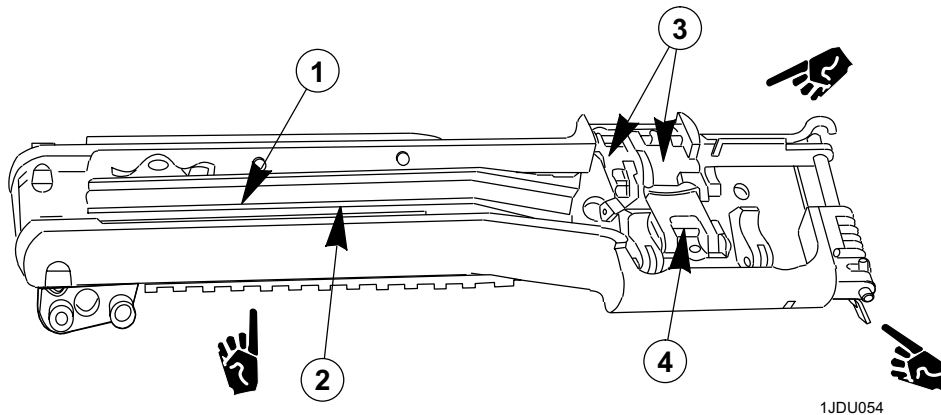
1JDU053

TROUBLESHOOTING (Cont)

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

8. STOPS FIRING (Cont).

Step 2. Feed mechanism is sticking. Check for burrs or distortion in Channel (1) area of Feed Lever (2). If defective, notify Direct Support Maintenance.

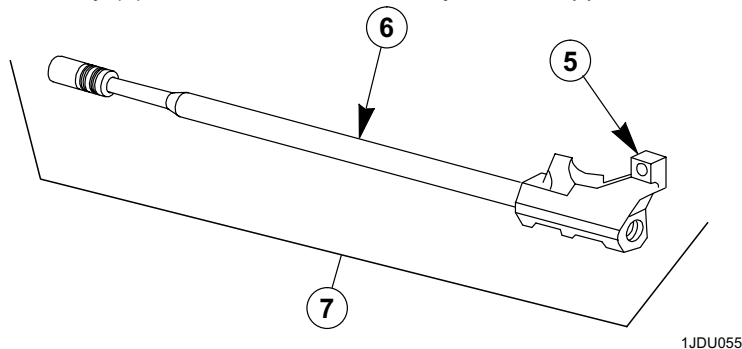


Check front and rear cartridge retaining pawls (3) for burrs or breaks and springs for broken or kinked coils. If components are defective, notify Direct Support Maintenance.

Check feed pawl assembly (4) for burrs or excessive wear (looseness) and springs for broken or kinked coils. If components are defective, notify Direct Support Maintenance.

Check for interference between cartridge guides and feed pawls when actuated by Feed Lever (2). If interference exists, notify Direct Support Maintenance.

Step 3. Check for looseness between Tower Portion (5) and Tube Portion (6) of Gas Piston Assembly (7). If looseness exists, notify Direct Support Maintenance.



WARNING

IF YOU TRY TO CHARGE THE WEAPON AND THE COCKING HANDLE WILL NOT UNLOCK THE BOLT, DO NOT TRY TO FORCE THE COCKING HANDLE TO THE REAR WITH YOUR FOOT OR A HEAVY OBJECT. THIS CAN CAUSE INJURY TO PERSONNEL OR DAMAGE THE WEAPON.

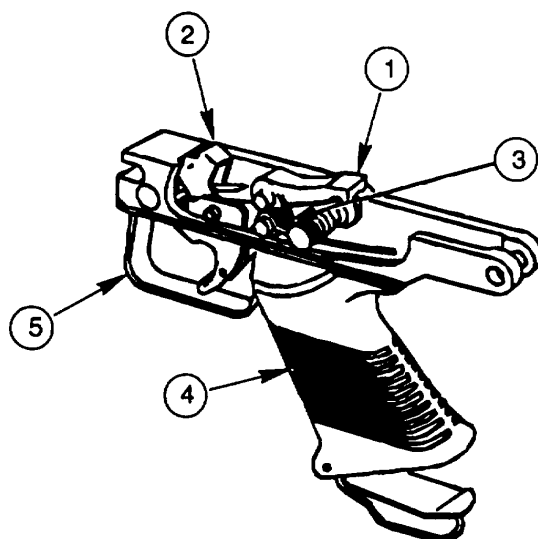
Step 4. Bolt jammed in barrel socket. The weapon must be treated as though it has a live round in the chamber if the bolt is locked and it cannot be charged. Notify Direct Support Maintenance.

TROUBLESHOOTING (Cont)

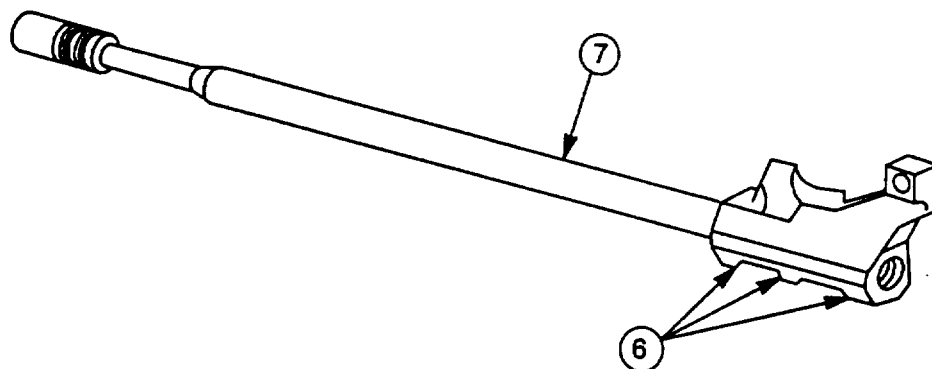
MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

9. FAILURE TO COCK OR RUNAWAY GUN.

- Step 1. Check for broken, stuck, or worn Sear (1); broken, stuck, or worn Tripping Lever (2); and broken or damaged Sear Spring (3) in Trigger Mechanism Assembly (4). If defective, notify Direct Support Maintenance. Check for bent or damaged Trigger Guard (5). If damaged, notify Unit Maintenance.



- Step 2. Check for rounded edges on Sear Notches (6) of Piston Assembly (7). If defective, notify Direct Support Maintenance.

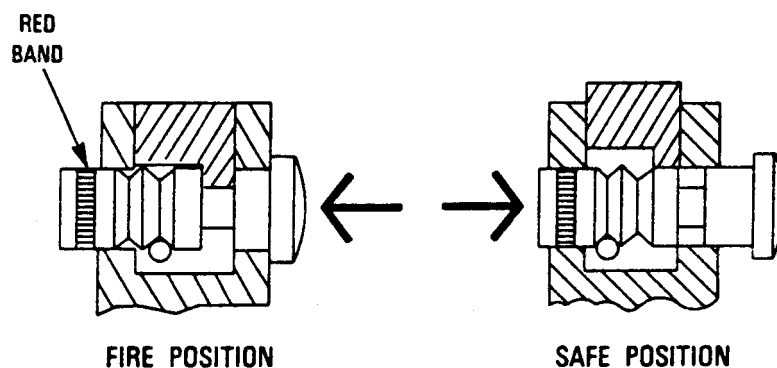
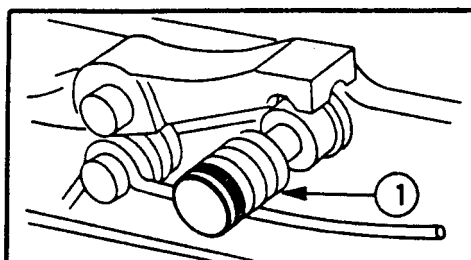


TROUBLESHOOTING (Cont)

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

10. FAILURE TO LOCK WEAPON IN OPEN BOLT POSITION.

Defective safety. If Safety (1) fails to slide properly after cleaning and lubrication, or hold positively in either FIRE position (red band visible) or SAFE position (red band not visible), notify Direct Support Maintenance.



Section V. MAINTENANCE PROCEDURES

NOTE

- a. When a machine gun is received at organizational maintenance, it must be inspected and if any deficiencies are found, they should be repaired or noted/tagged for repair at the direct support level.
- b. All weapons will be clean prior to inspection and repair.

2-9. MAINTENANCE OF MACHINE GUN.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

Materials/Parts

Cleaner, Lubricant and Preservative (CLP)
(item 1, app D)
Wiping Rag (item 3, app D)
Solid Film Lubricant (item 7, app D)
Masking Tape (item 8, app D)
Dry Cleaning Solvent (SD) (item 9, app D)

References

TM 9-1005-201-10
TM 08671A-10/1A

DISASSEMBLY/INSPECTION/REPAIR/REASSEMBLY

WARNING

Make certain weapon is cleared and that there is no obstruction in the barrel or chamber.

1. Field strip weapon in accordance with TM 9-1005-201-10/TM 08671A-10/1A.

CAUTION

To avoid damage to equipment do not use dry cleaning solvent on plastic, sealed buffers, etc.

WARNING

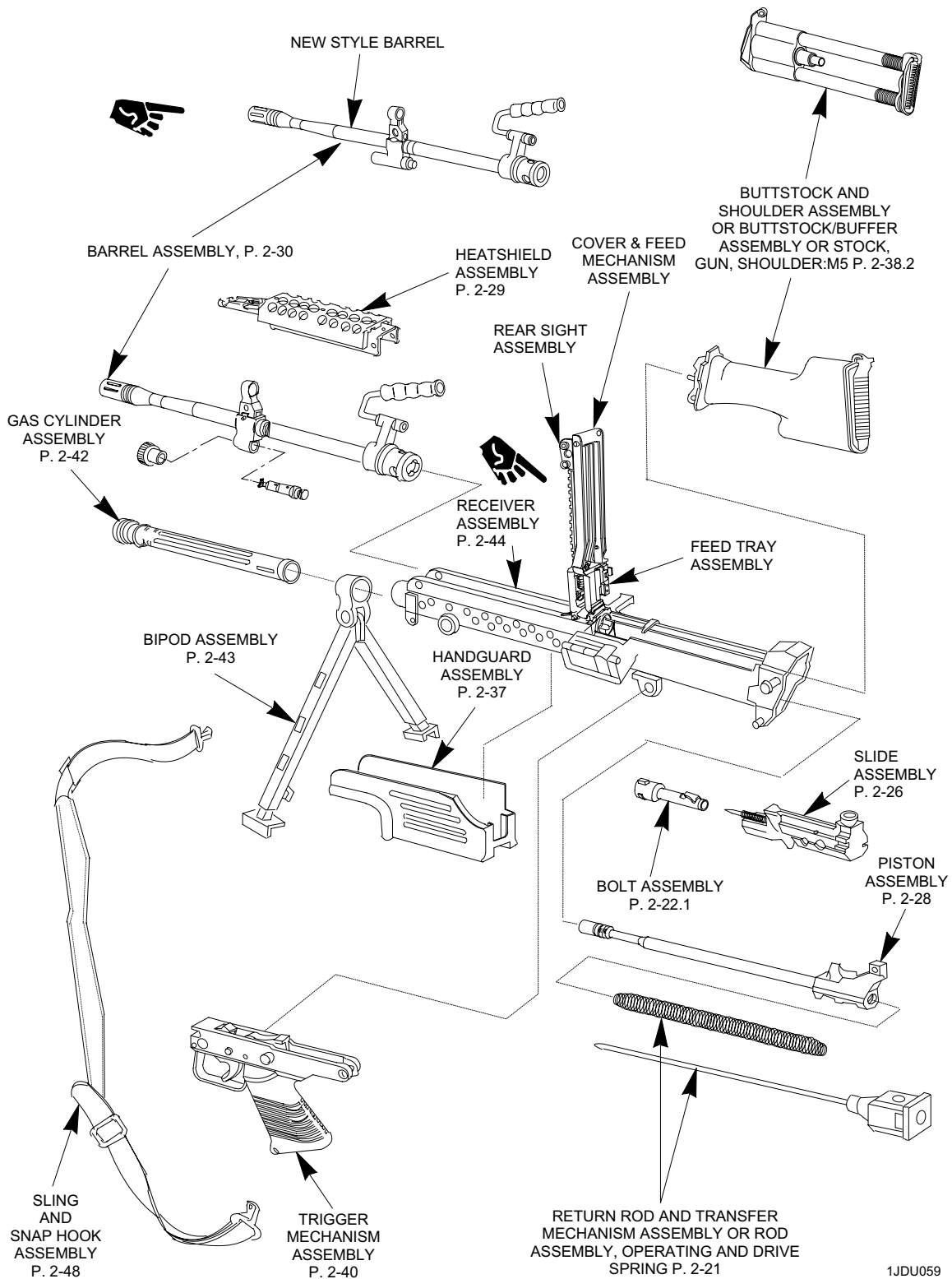
Dry cleaning solvent is flammable and toxic. Make sure there is adequate ventilation. Keep away from ignition source. Make sure safety equipment (safety glasses/chemical splash goggles, safety gloves and eye wash station) is available when using this solvent.

2. Occasionally, it may be necessary during unusual conditions to flush out sand and other debris from assemblies and components using Dry Cleaning Solvent (item 9, app D).
3. Visually inspect all parts for damage.
4. Inspect external surfaces for proper finish (surfaces should not reflect light). Touch-up as required with Solid Film Lubricant (item 7, app D). Mask off areas that do not require touch-up, using Masking Tape (item 8, app D).
5. Repair as authorized and lightly lube all metal surfaces with CLP (item 1, app D) and Wiping Rags (item 3, app D) except as noted.
6. Reassemble in accordance with TM 9-1005-201-10/TM 08671A-10/1A.

WARNING

Barrel Assemblies or Bolt Assemblies must NOT be interchanged with other M249 Machine Guns unless they have been checked for proper headspace by Direct Support Maintenance.

DISASSEMBLY/INSPECTION/REPAIR/REASSEMBLY (Cont).



2-9.1 MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer

References

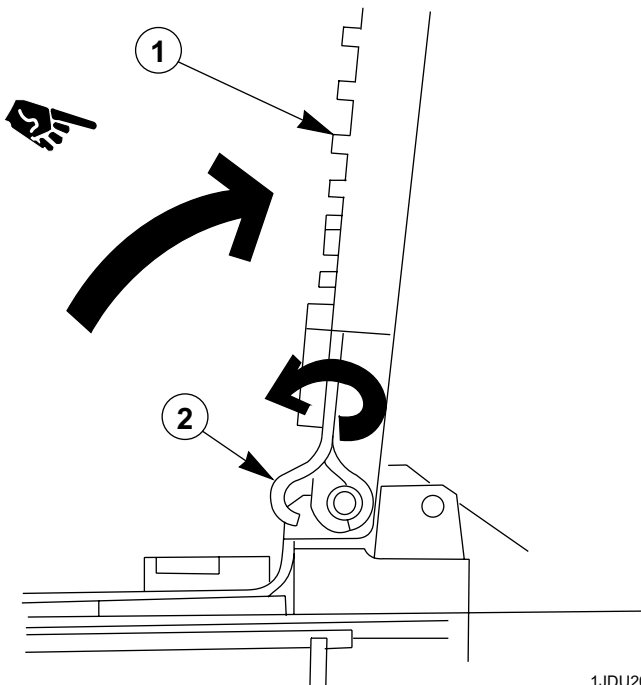
TM 9-1005-201-10
TM 08671A-10/1A
TM 9-4933-273-12&P

Equipment Condition

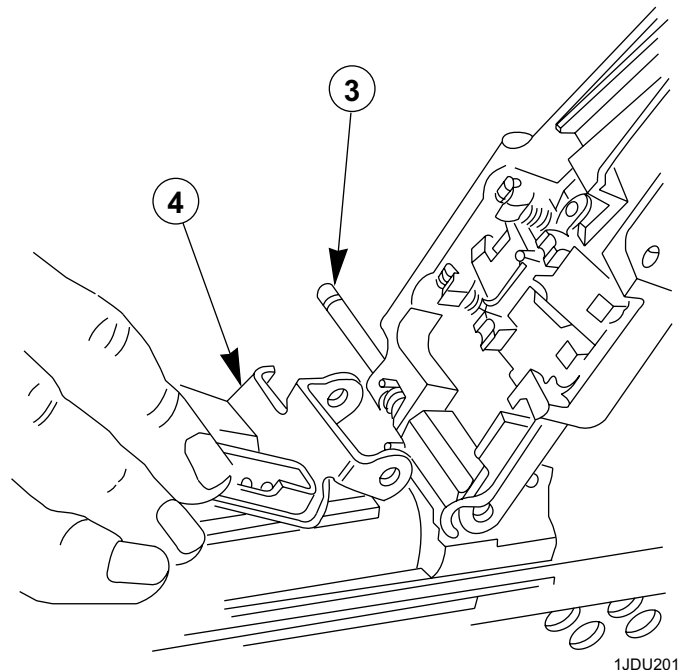
Cover and Feed Mechanism Assembly
on Machine Gun Receiver Assembly

DISASSEMBLY/INSPECTION/REPAIR

1. Open Cover and Feed Mechanism Assembly (1) and rotate Hooked, Retaining Pin (2) 180°.



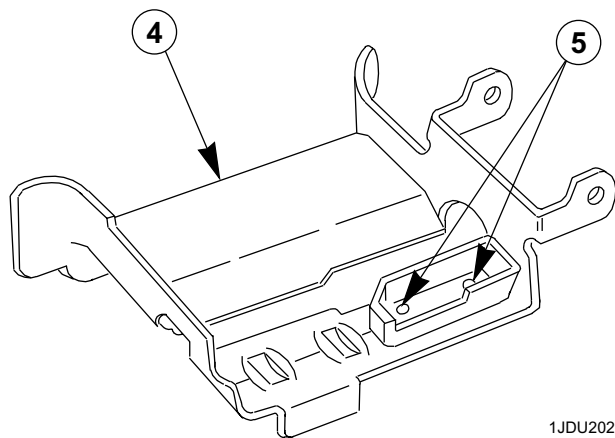
2. Push out Headless Pin (3). Slide Feed Tray (4) rearward and remove.



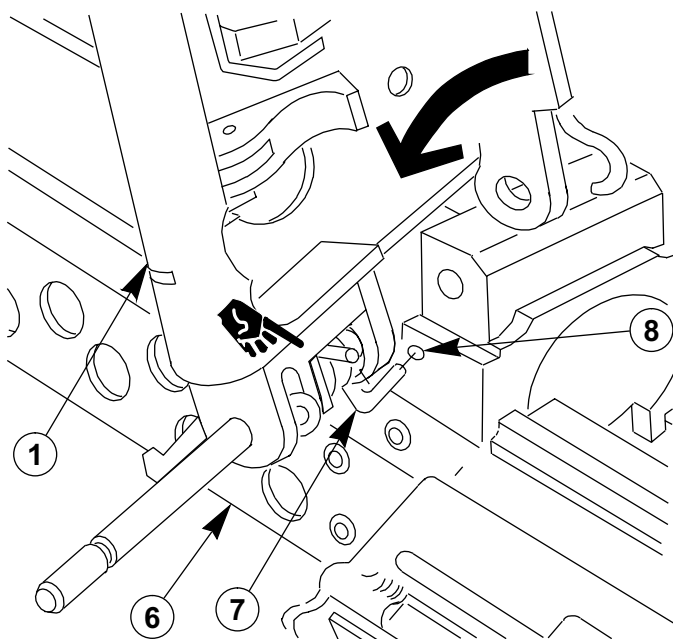
2-9.1 MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY.

DISASSEMBLY/INSPECTION/REPAIR (Cont).

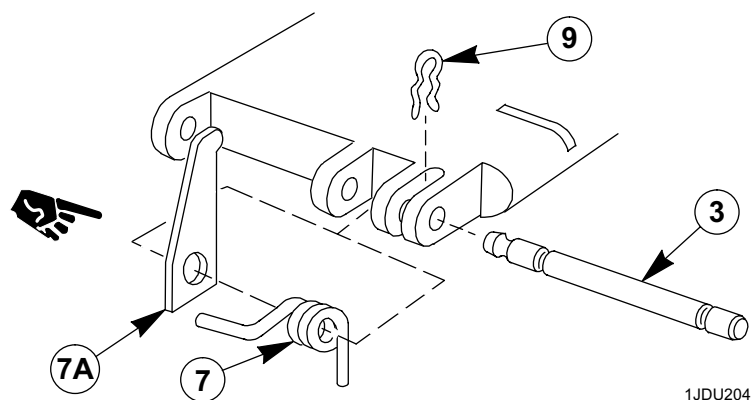
3. Visually inspect Feed Tray Assembly (4) for burrs, cracks, bends and loose or missing Rivets (5). If damaged, replace Feed Tray Assembly (4).



4. Pivot Cover and Feed Mechanism Assembly (1) to left of Receiver Assembly (6), freeing Torsion Spring (7) from Hole (8). Separate Cover and Feed Mechanism Assembly (1) from Receiver Assembly (6).



5. Remove Retaining Clip (9). Remove Headless Pin (3) and separate Torsion Spring (7) and Catch Cover (7a).



6. Visually inspect Headless Pin (3) for burrs and bends, and replace if damaged.

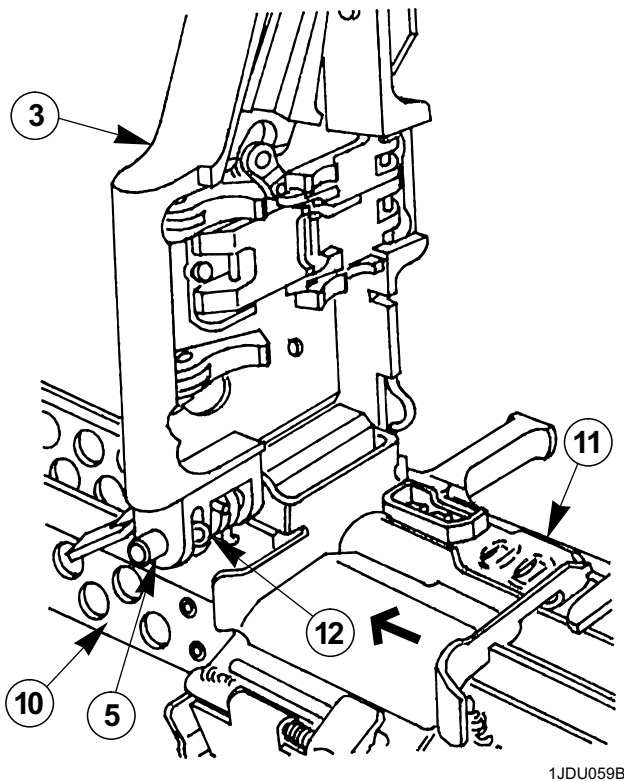
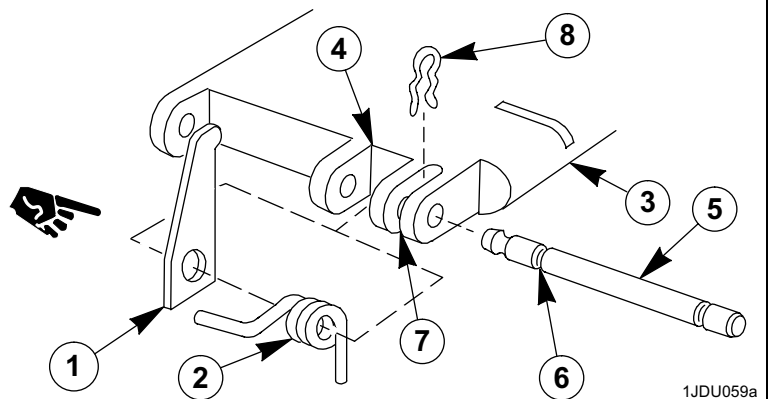
7. Visually inspect Torsion Spring (7) for broken coils and bent or broken legs. Replace if damaged.

REASSEMBLY

1. Position Catch Cover (1) as shown and Torsion Spring (2) with straight leg toward Cover and Feed Mechanism Assembly (3) in slot (4).

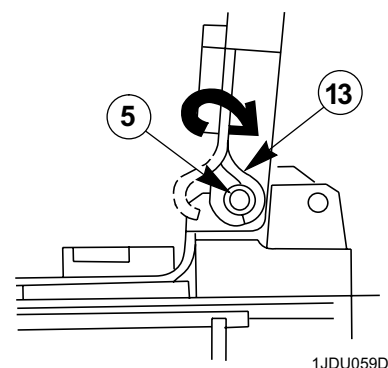
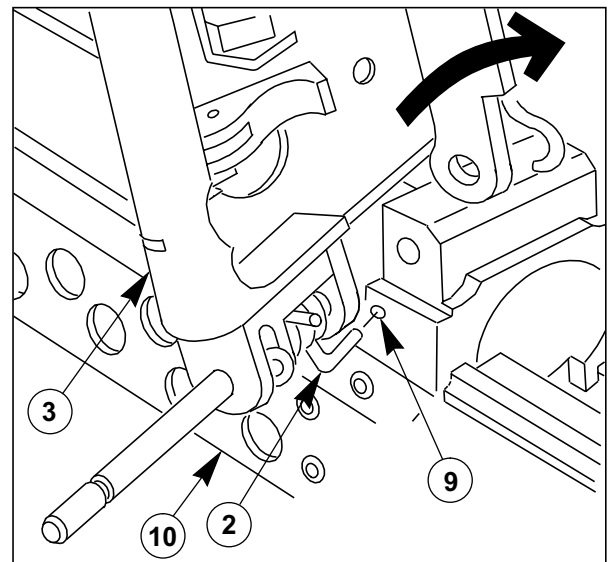
2. Partially insert the end with two notches of Grooved, Headless Pin (5) into left side of Cover and Feed Mechanism Assembly (3) and through Torsion Spring (2) until Middle Notch (6) of Grooved, Headless Pin (5) aligns with Slot (7), and insert Retaining Clip (8).

3. With Cover and Feed Mechanism Assembly (3) in vertical position, guide tang of Torsion Spring (2) into Hole (9) on left side of Receiver Assembly (10) and rotate over top of Receiver Assembly (10).



4. Place Feed Tray (11) on Receiver Assembly (10) and slide forward into place. Push Grooved, Headless Pin (5) through Feed Tray (11), Receiver Assembly (10) and Cover and Feed Mechanism Assembly (3), until left notch of Grooved, Headless Pin (5) is secured by Retaining Clip (12).

5. Pivot Hooked Retaining Pin (13) over end (right side) of Grooved, Headless Pin (5).



2-10. MAINTENANCE OF RETURN ROD AND TRANSFER MECHANISM ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

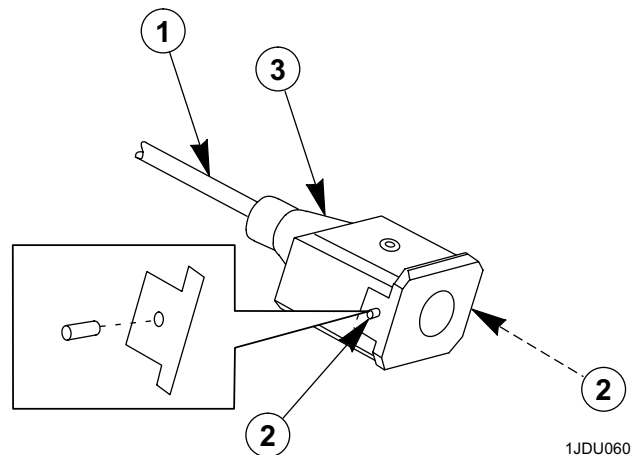
Equipment Condition

Return Rod and Transfer
Mechanism Assembly or Rod Assembly,
Operating removed.
Spring, Helical removed.

INSPECTION/REPAIR - RETURN ROD AND TRANSFER MECHANISM ASSEMBLY

1. Visually inspect Rod (1). If bent or broken, replace entire assembly.
2. Inspect two Spring Pins (2). If bent, damaged, or missing, replace Spring Pin (2). If either pin is broken (sheared off), replace entire assembly.
3. Using pliers (w/cutter), grip the bent or damaged Spring Pin (2) 90 degrees to the split, gently squeeze and pry out of hole.
4. To install NEW Spring Pin (2), place return rod and transfer mechanism assembly on vise with jaws slightly apart. With chamfered end of Spring Pin (2) in hole and the split to the front (as shown), drive in pin until it stops.

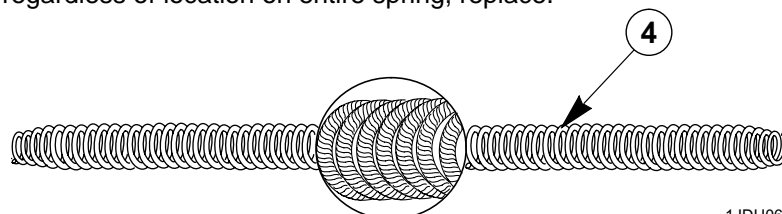
NOTE
Rotational and lateral movement (looseness) between the Rod (1) and the Plunger (3) is acceptable.



NOTE

The flat end (square end) of Spring Pin (2) must be protruding for proper retention in the receiver.

5. Inspect Driving Spring (4). If more than one broken strand is found, on the same coil, or if more than two strands are broken, regardless of location on entire spring, replace.



12-11. MAINTENANCE OF BOLT ASSEMBLY

This task covers:
Disassembly/Cleaning/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

Materials/Parts

Cleaner, Lubricant and Preservative (CLP)
(item 1, app D)
Wiping Rag (item 3, app D)

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Bolt Assembly removed.

DISASSEMBLY

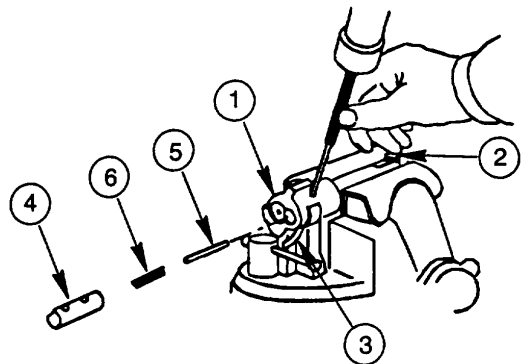
WARNING

Bolt must not be Interchanged with other M249 Machine Guns unless they have been headspaced by Direct Support Maintenance.

1. Position Bolt Assembly (1) in a protective jawed vise with Cam Lobe (2) in an up position.

CAUTION
Extractor Pin (3), Extractor (4),
Pin Guide (5), and Extractor Spring
(6) are not to be reused.

2. Drive out Extractor Pin (3) and discard.
3. Remove Extractor (4), Pin Guide (5), and Extractor Spring (6) and discard.



Change 5 2-22.1/(2-22.2 blank)

CLEANING

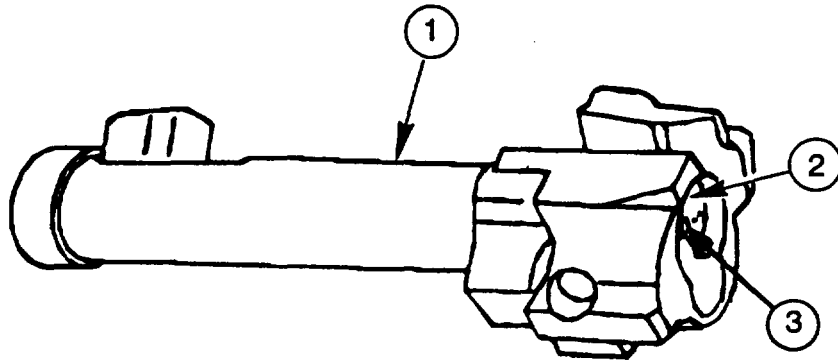
Remove dirt and corrosion from bolt using rag dampened with CLP. Lightly oil all parts except face of bolt after cleaning.

INSPECTION AND REPAIR

If Bolt Body (1) is damaged, notify Direct Support Maintenance. Minor pits are allowable around firing pin hole on Bolt Face (2). If Firing Pin Hole (3) is elongated, notify Direct Support Maintenance.

NOTE

Although initial extraction may occur, a chipped extractor claw can allow the cartridge case to escape inside the receiver before ejection happens, which may cause a failure to chamber of the following round.

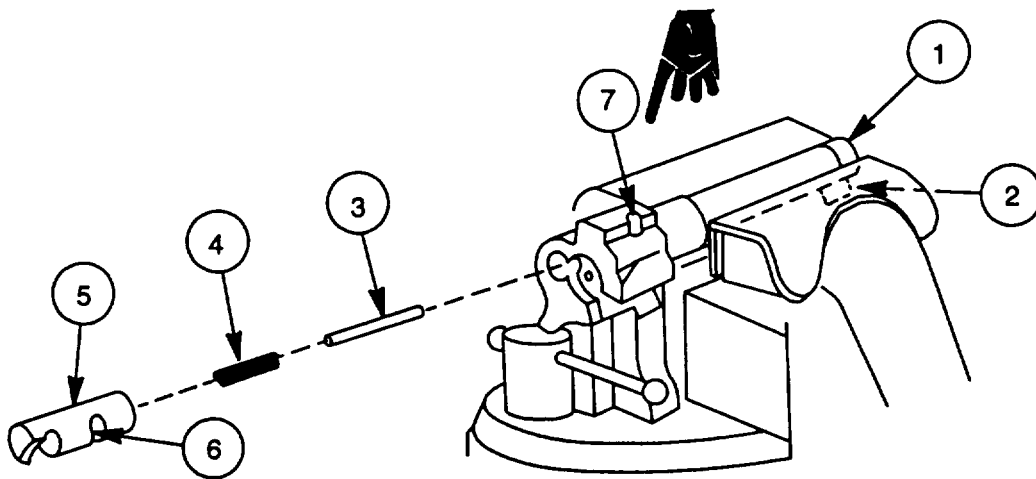


REASSEMBLY

WARNING

Bolt must not be Interchanged with other M249 Machine Guns unless they have been headspaced by Direct Support Maintenance.

1. Position Bolt Body (1) in protective jawed vise with Cam Lobe (2) in down position.
2. Install **NEW** Pin Guide (3), **NEW** Extractor Spring (4), and **NEW** Extractor (5) (all components of Parts Kit, Gun, Extractor) into extractor hole and aline Slot (6) of Extractor (5) with Hole (7) for extractor pin.



CAUTION

Do not reuse extractor pins because they lose their retention capability and can slip out of position which can severely Jam the weapon.

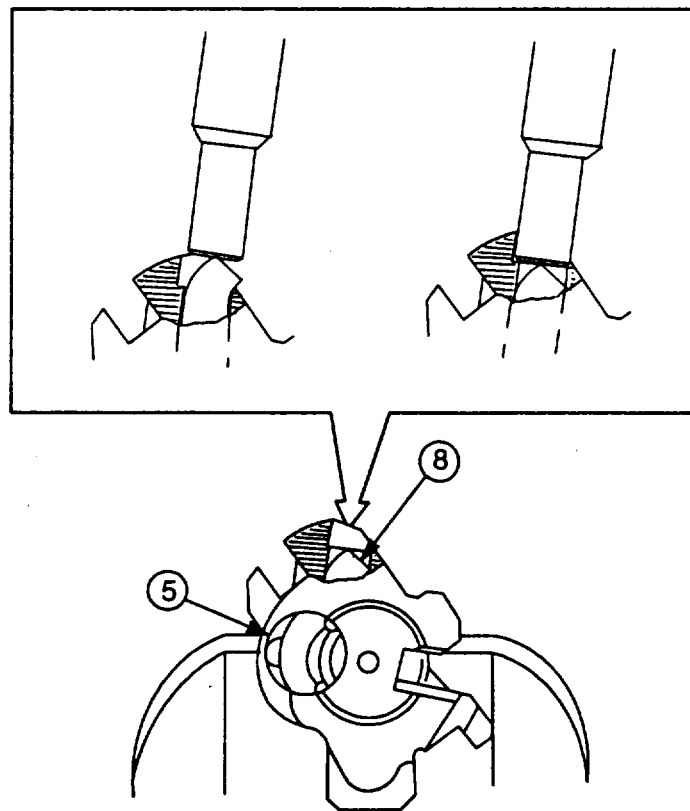
CAUTION

When installing new extractor pins assure that only newer designed pins are used. The newer designed pin is Identified as part number 9350086, NSN 1005-01-225-8340. The older designed pin is NOT to be used and is Identified as part number 9348417, NSN 5315-01-128-5467. It is not visually possible to determine which pin you have once they have been unpackaged.

NOTE

With the cam lobe of the bolt down in the vise, position the NEW Extractor Pin (8) with bend toward center (firing pin hole) of bolt (as shown).

3. Insert chamfered end of NEW Extractor Pin (8) (component of Parts Kit, Gun, Extractor) to hold Extractor (5) in place.



4. Seat Extractor Pin (8) to countersink depth as shown.

2-12. MAINTENANCE OF SLIDE ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

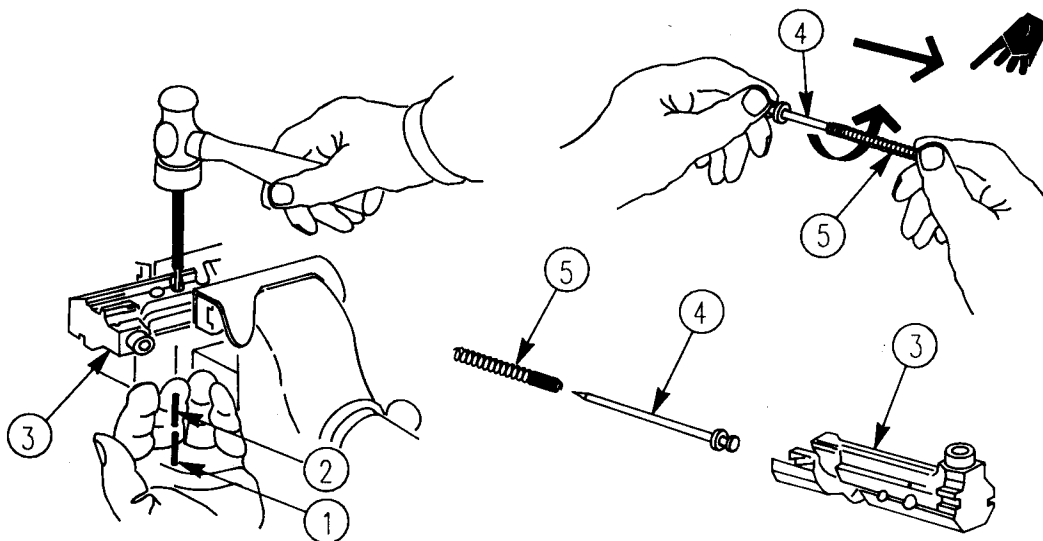
Slide Assembly removed.

DISASSEMBLY/INSPECTION/REPAIR

CAUTION

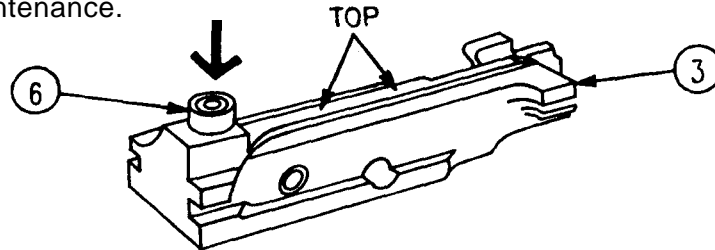
DO NOT put roller in vise.

1. Place Slide Assembly (3) in protective jawed vice. Drive out Spring Pins (1) and (2) from Slide Assembly (3). Discard both spring pins.
2. Remove Firing Pin (4) and separate Firing Pin Spring (5) by holding Firing Pin (4) in left hand and rotating spring counterclockwise (CCW) while withdrawing from firing pin.
3. Replace Firing Pin (4) if bent, chipped or broken.
4. Replace Firing Pin Spring (5) if broken, kinked, or elongated coils exist.



5. Check Roller Assembly (6) for free rotation. Check for spring tension by pressing down on Roller Assembly (6). If Roller Assembly (6) does not rotate freely or no spring tension exists, notify Direct Support Maintenance.

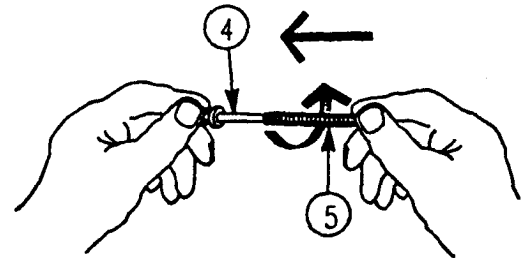
6. If a cookoff has occurred or it is suspected that a cookoff has occurred, inspect the top of the Slide Assembly (3) for cracks or bulges. If Slide Assembly (3) is damaged, notify Direct Support Maintenance.



REASSEMBLY

1. Install Firing Pin Spring (5) by holding Firing Pin (4) in the left hand and with tightly coiled end first, rotate spring counterclockwise (CCW) onto Firing Pin (4).

2. Install Firing Pin (4) into Slide Assembly (3). Align notch in Firing Pin (4) with hole for large Spring in (2).



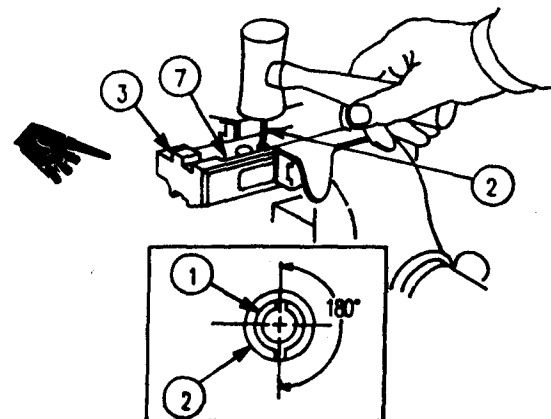
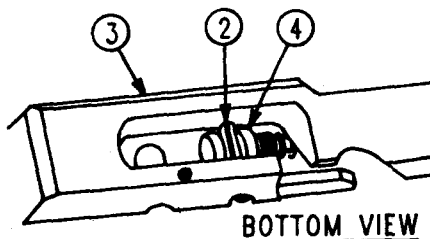
NOTE

Position Slide Assembly (3) in protective jawed vise with Surface (7) up.

3. Drive NEW large Spring Pin (2) into Slide Assembly (3). Slot of Spring Pin (2) must be installed to bottom of Slide Assembly (3), as shown. Drive in Spring Pin (2) flush with Surface (7).

CAUTION

Spring Pin (2) must be flush with Surface (7) or it will interfere with the inner, right side, rail of the receiver during the recoil and counter recoil cycles. This condition can rob power and cause a variety of malfunctions; i.e., Sluggish Operation, Failure to Charge, Failure to Feed/Strip, Failure to Chamber, or Failure to Fire.



4. After positioning slot of NEW, small Spring Pin (1) opposite the slot of the large Spring in (2) (see inset), drive in below flush (equal distance) both sides of Slide Assembly (3).

2-13. MAINTENANCE OF PISTON ASSEMBLY.

This task covers:
Inspection/Repair

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Piston Assembly removed.

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

INSPECTION/REPAIR

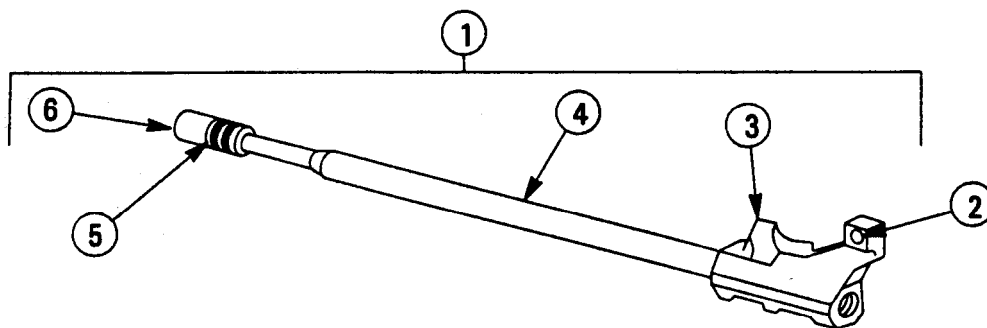
CAUTION

Piston (6) and Tube Portion (4) are adjusted at factory and not to be disassembled or altered.

1. Visually inspect Piston Assembly (1) for bends, breaks, burrs or cracks. Visually inspect Hole (2) for cracks. Inspect for looseness between Tower Portion (3) and Tube Portion (4). Visually inspect for missing Spring Pins (5).

NOTE

Slight rotational and lateral movement (looseness) of the Piston (6) is normal and not cause for rejection. Do not lubricate Piston (6).



2. Notify Direct Support Maintenance if any parts are damaged or missing, and if looseness exists between Tower Portion (3) and Tube Portion (4).

2-14. MAINTENANCE OF HEAT SHIELD.

This task covers:
Inspection/Repair

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

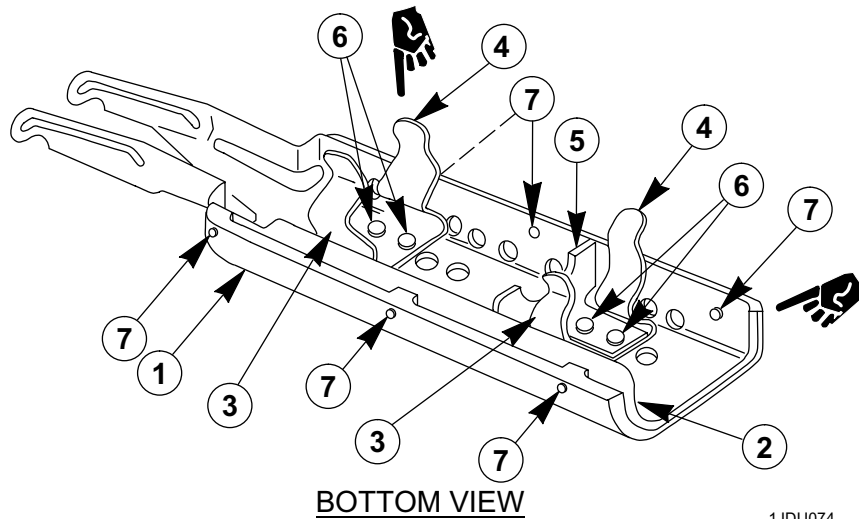
Heat Shield Assembly removed.

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

INSPECTION/REPAIR

1. Visually inspect Shield (1) for cracks and/or breaks; Liner (2) for bends and/or dents; two Barrel Clips (3) for bends; four Clip Ends (4) for cracks or breaks; Barrel Locator (5) for bends; and four Rivets (6) and six Rivets (7) for looseness.



NOTE

Some heat distortion or charring may be observed on the outer non-metallic portion of the heatshield assembly and is not cause for replacement.

2. Replace Heat Shield Assembly (1) if any components are damaged or missing.

2-15. MAINTENANCE OF BARREL ASSEMBLY, GAS COLLAR AND GAS REGULATOR.

This task covers:
Disassembly/inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900
Box Spanner 9350031
Wrench, Spanner 9350033

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A
TM 9-4933-273-12&P

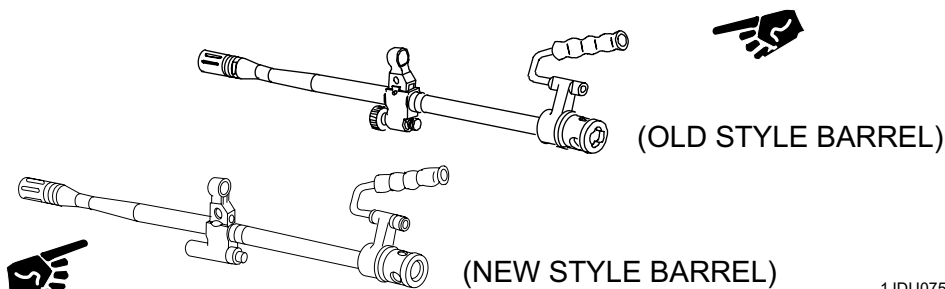
Equipment Condition

Barrel Assembly (12556957 (old style),
12011986 (new style)) removed.
Gas Collar and Gas Regulator
Removed.

DISASSEMBLY

WARNING

Barrel Assemblies or Bolt Assemblies must NOT be interchanged with other M249 Machine Guns unless they have been checked for proper headspace by Direct Support Maintenance.

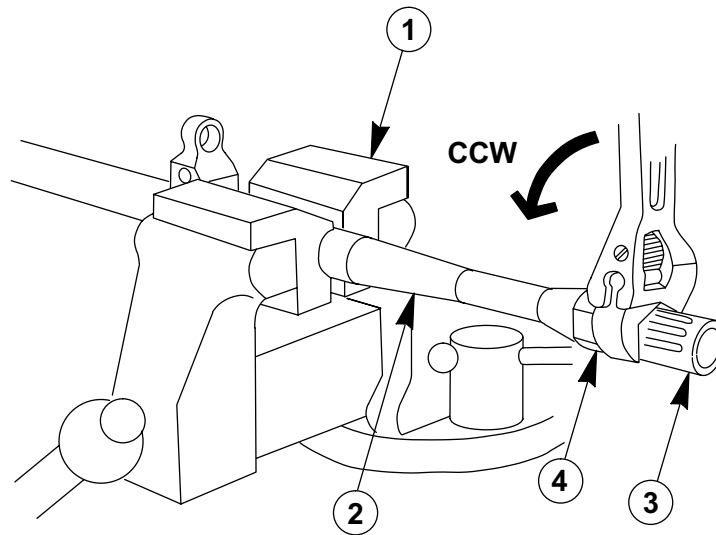


1JDU075

CAUTION

Gas Collar and Gas Regulator must be removed from Old Style barrel before putting Barrel Assembly (2) in vise which must have Protective Barrel Jaws (1).

1. Use an adjustable wrench to remove Compensator (3) from both Old and New Style barrel. Turn counterclockwise (CCW) to remove (right-hand threads).
2. Remove Compensator Washer (4) from New and Old Style barrel and discard.



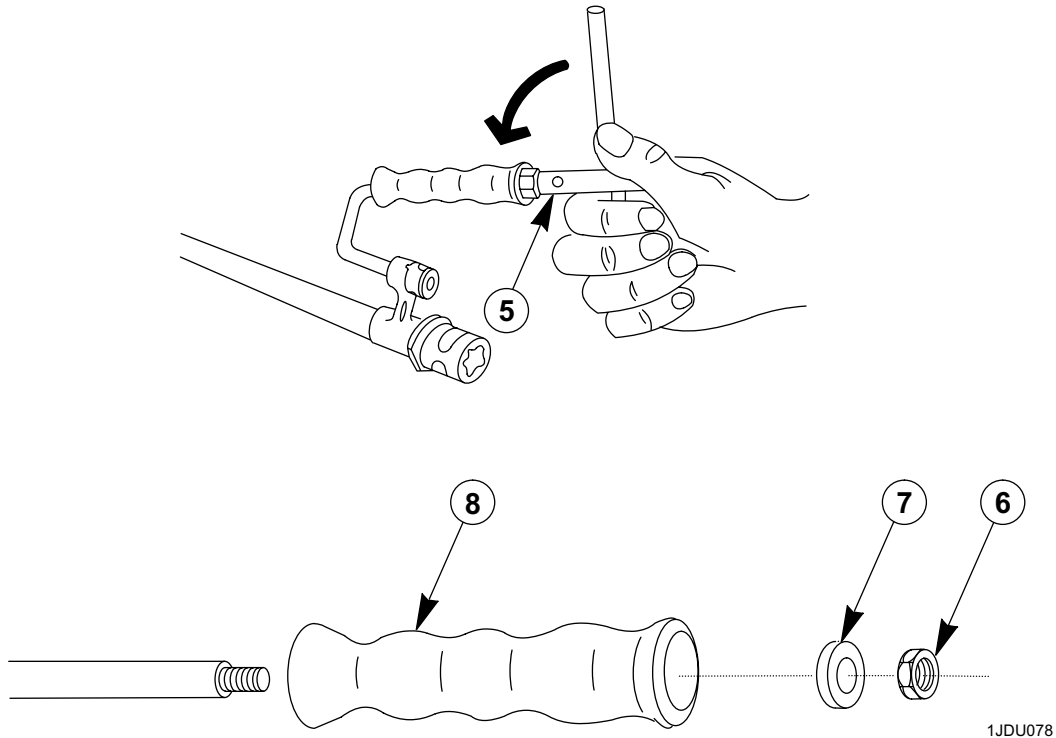
NEW STYLE BARREL

1JDU076

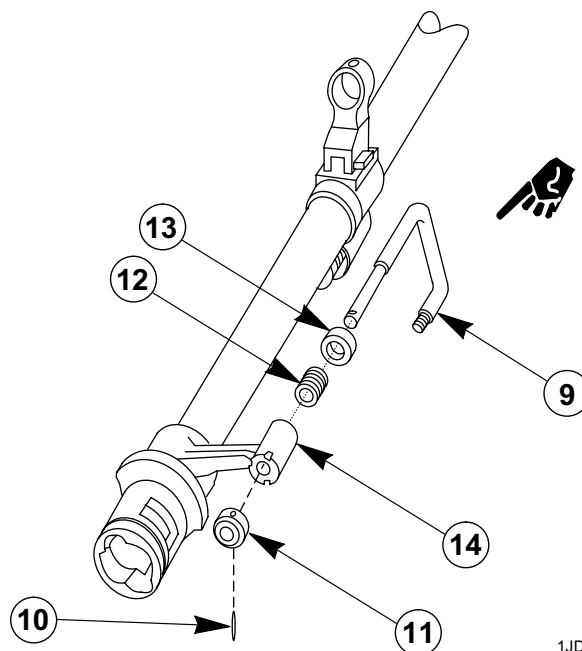
3. Using 10mm end of Box Spanner (5) remove Nut (6) and discard. Separate Washer (7) and Grip (8).

NOTE

Use same procedure to disassemble Grip (8), Washer (7) and Nut (6) from Old Style Barrel.



4. Rotate Handle (9) to the folded down position (along side of receiver). Drive out Spring Pin (10) and discard, remove Collar (11). Remove Handle (9), Spring (12) and Bushing (13) from Handle Bracket (14) (New Style Barrel only).



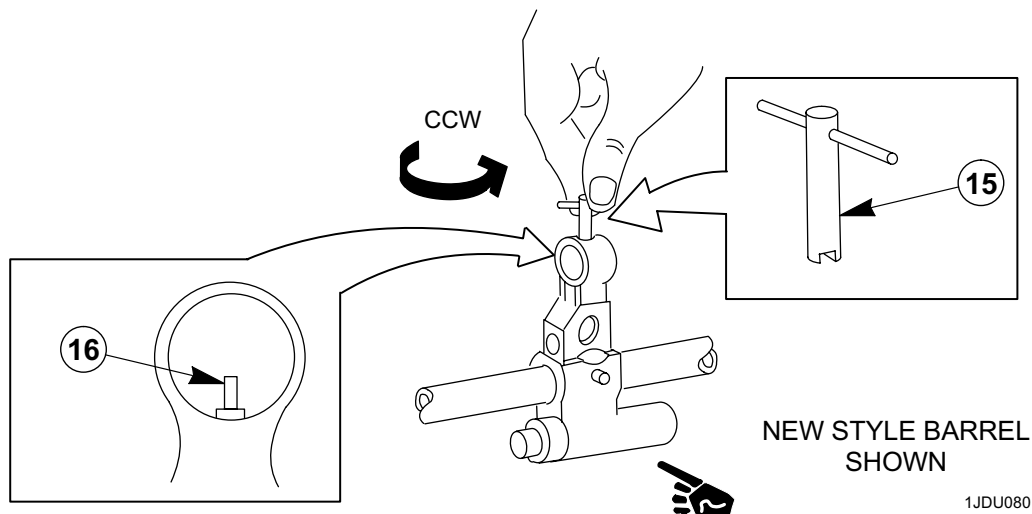
2-15. MAINTENANCE OF BARREL ASSEMBLY, GAS COLLAR AND GAS REGULATOR (Cont).

DISASSEMBLY (Cont)

NOTE

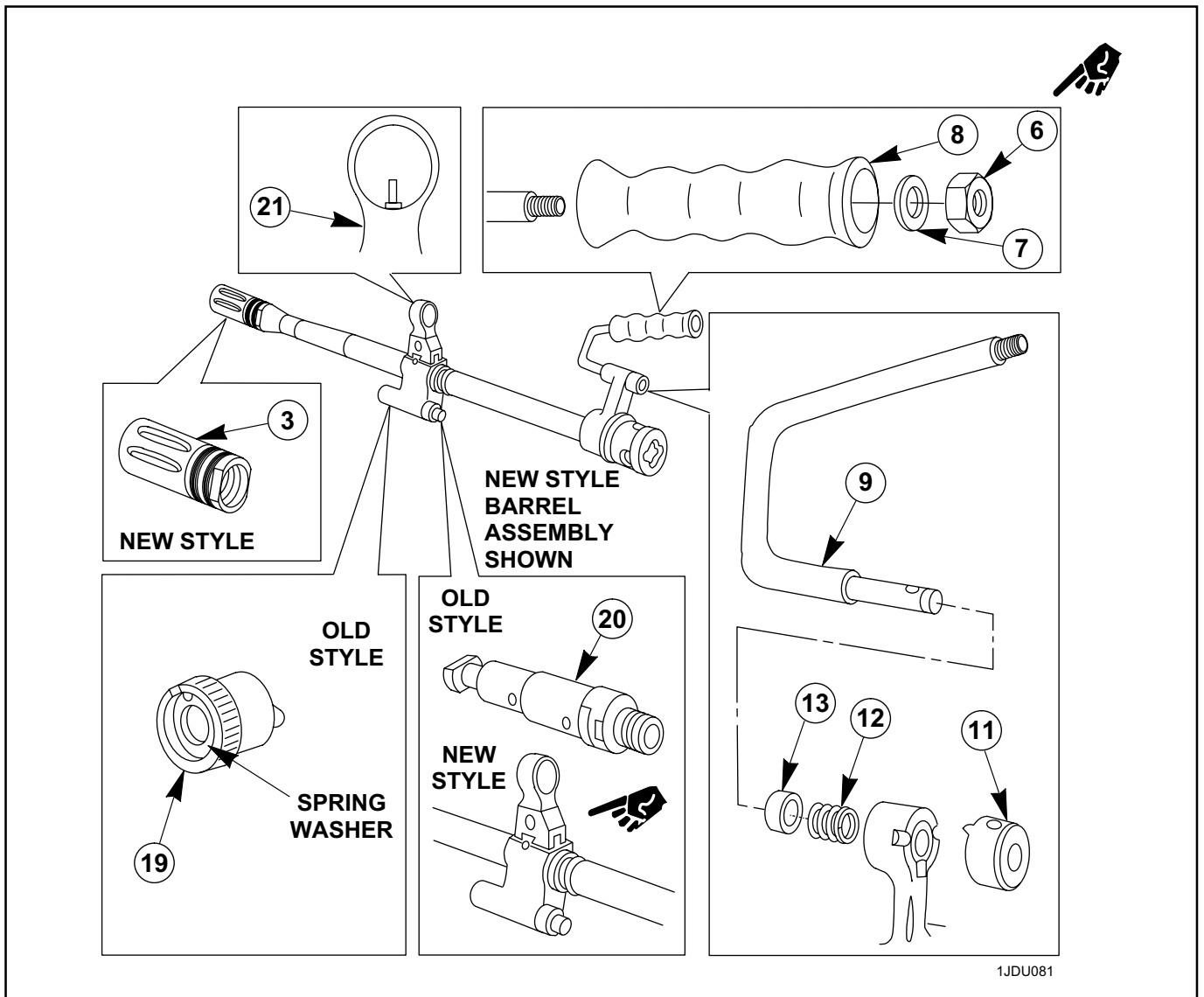
Prior to disassembly of Front Sight Post (16), count number of threads exposed.

5. Using Spanner Wrench (15) unscrew Front Sight Post (16) counterclockwise (CCW) and discard.



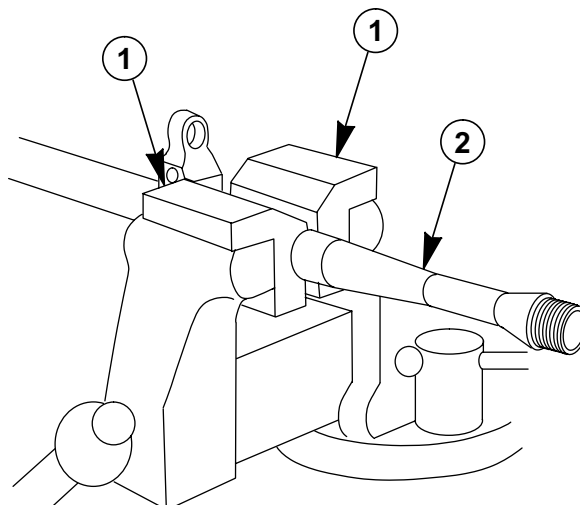
INSPECTION/REPAIR

1. Inspect Compensator (3) for dents, cracks or burrs. Replace if damaged or missing.
2. Inspect Gas Collar (19) of Old Style barrel for bent or missing spring washer and Gas Regulator (20) for burrs. Replace if damaged or missing.
3. Inspect Grip (8) for cracks or breaks. Replace if broken or missing. Inspect Washer (7) and Nut (6) for burrs and replace if damaged or missing.
4. Inspect Collar (11), Handle (9), Spring (12) and Bushing (13) for damage. Replace unserviceable components.
5. Inspect Front Sight Base (21) for looseness or damage. If loose or damaged notify Direct Support Maintenance.
6. Check New Style barrel gas regulator (20) for burrs.



REASSEMBLY

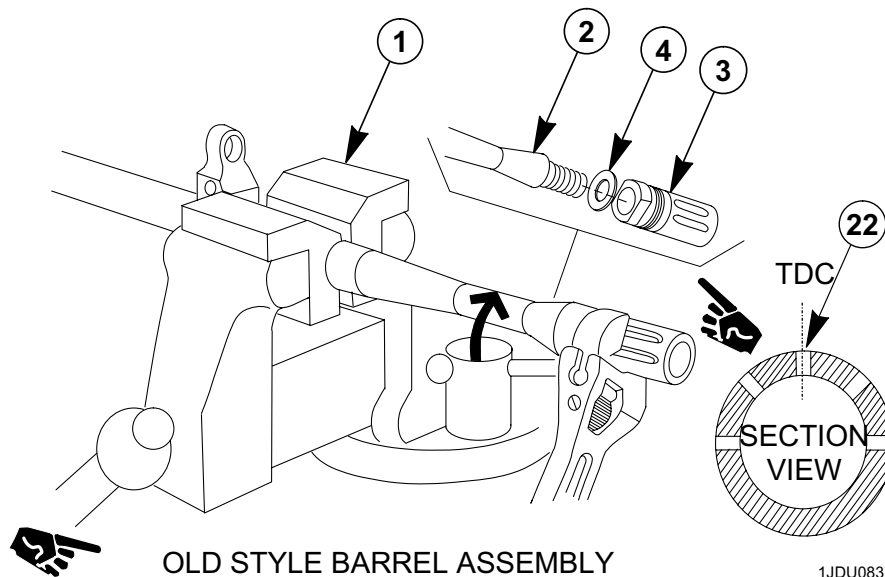
1. Secure Barrel Assembly (2) in a vise with Protective Barrel Jaws (1).



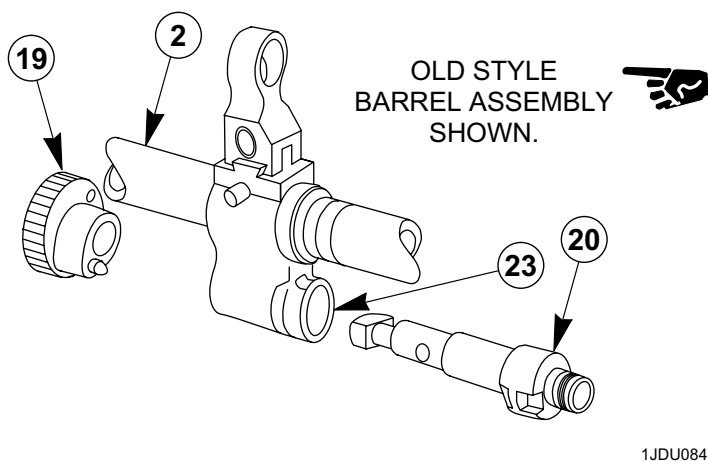
2-15. MAINTENANCE OF BARREL ASSEMBLY, GAS COLLAR AND GAS REGULATOR (Cont).

REASSEMBLY (Cont)

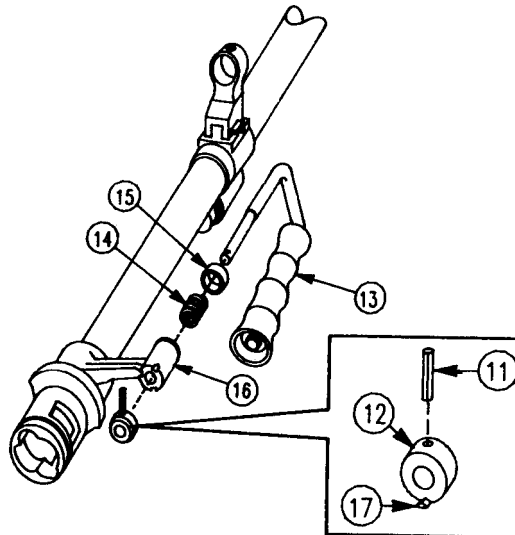
2. Reinstall NEW Washer (4), with lip of recess toward the barrel shoulder as shown and Compensator (3) on Barrel Assembly (2) by turning clockwise (CW) (right-hand threads) until snug against Washer (4). Continue to tighten Compensator (3) with adjustable wrench until Third/Middle Slot (22) is straight up or Top Dead Center (TDC). Tighten securely with adjustable wrench. Remove from Protective Barrel Jaws (1).



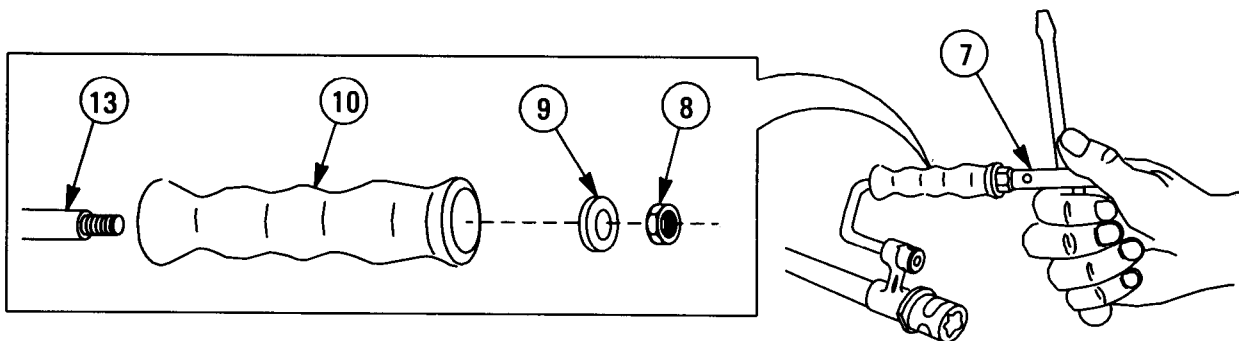
3. Reinstall Gas Regulator (20) and Gas Collar (19) on Barrel Assembly (2). DO NOT lubricate Gas Regulator (20), inside of Gas Block (23) or inside of Collar (19).



4. Place Collar (12) on hard surface with Lug (17) down and start Spring Pin (11) into Collar (12) being careful not to allow spring pin to protrude into center hole of collar. Install Bushing (15) and Spring (14) onto Handle (13). In the folded down position (along side of receiver) reinstall into Handle Bracket (16) and align hole in Collar (12) with hole in Handle (13). Drive in Spring Pin (11) until flush with Collar (12) (New Style Barrel Assembly only).



5. Install Grip (10), Washer (9) and NEW Nut (8) onto Handle (13) and tighten with 10mm end of Box Wrench (7).

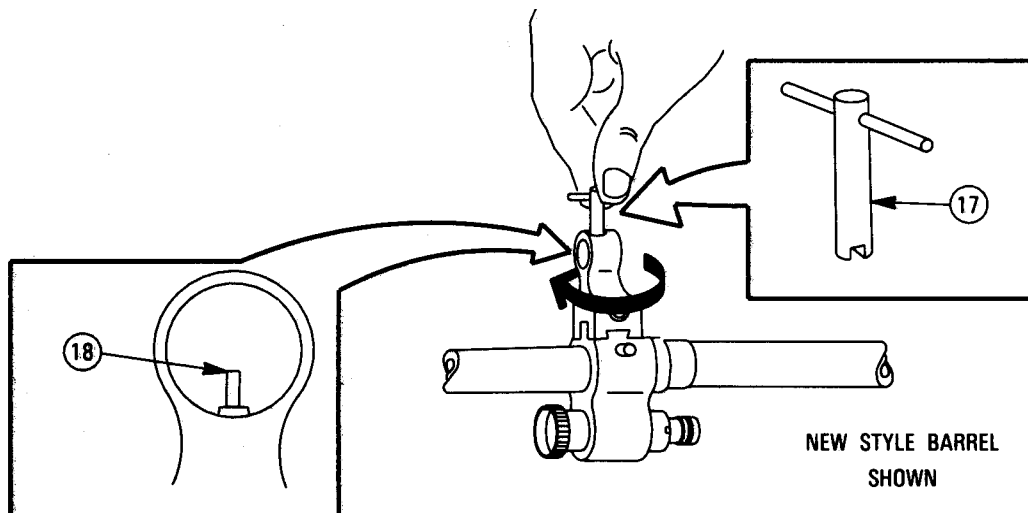


NOTE

Use same procedure to assemble Grip (10), Washer (9), and NEW Nut (8) on Old Style Barrel Assembly.

2-15. MAINTENANCE OF BARREL ASSEMBLY, GAS COLLAR AND GAS REGULATOR (Cont).**REASSEMBLY (Cont)**

6. Screw in NEW Front Sight Post (18) clockwise (CW) using Spanner Wrench (17) until threads on Front Sight Post (18) are even with the number of threads exposed before removal.

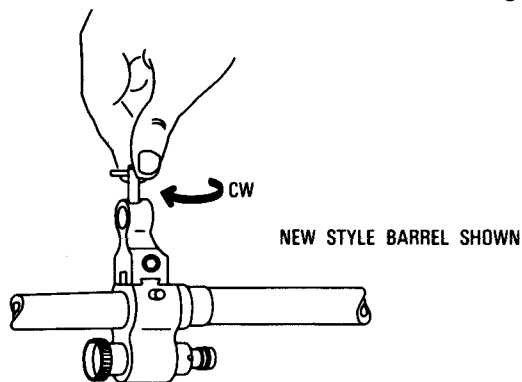
**NOTE**

Rezeroing weapon will be required by using unit if any parts of front sight assembly are removed or repaired.

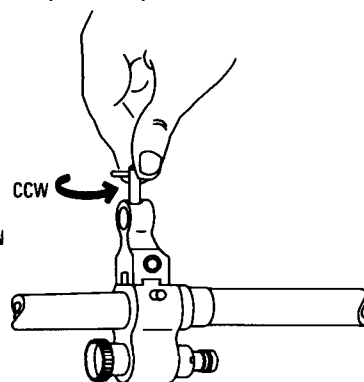
NOTE

If a gunner has a problem in zeroing his weapon in elevation, a front sight post adjustment may be required. Each 1/2 turn of the sight post is equal to 1 mil of elevation. Each mil of elevation moves the group on the target approximately 30 cm (12 inches) at 300 meters and 50 cm (20 inches) at 500 meters.

To raise the impact group, screw the sight post down clockwise (CW).



To lower the impact group, screw the sight post up counterclockwise (CCW).



2-16. MAINTENANCE OF HANDGUARD ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 9-08671A-10/1A

Equipment Condition

Handguard Assembly removed.

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

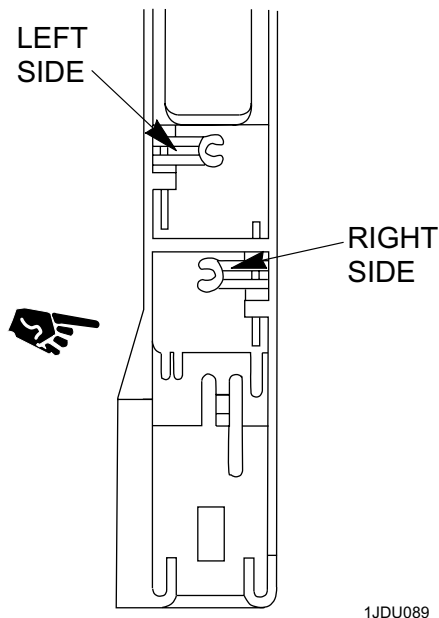
Materials/Parts

Retaining Clip 9348314
Retaining Clip 9348461

DISASSEMBLY/INSPECTION/REPAIR

NOTE

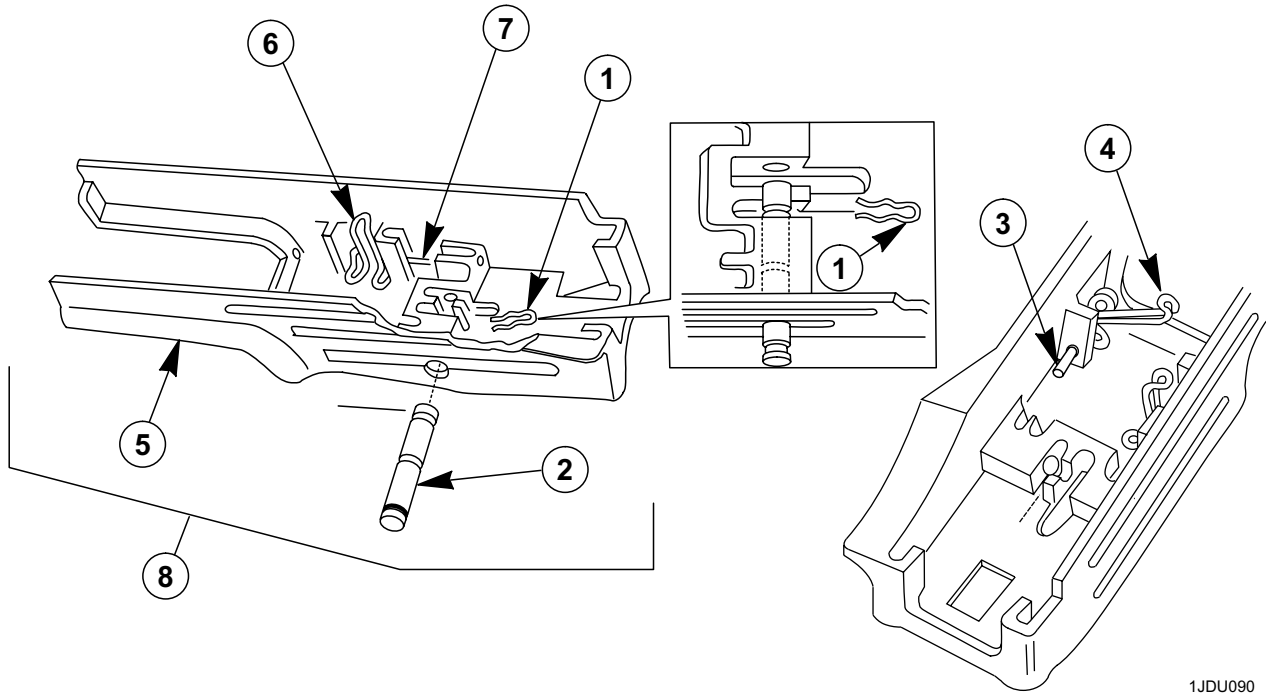
Prior to disassembly remove two rod sections, scraper assembly, handle assembly, chamber brush, bore brush and swab holder. After repair reinstall as shown in TM 9-1005-201-10/TM 08671A-10/1A.



2-38. MAINTENANCE OF HANDGUARD ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

1. Remove Retaining Clip (1) and discard. Pull out Grooved Pin (2).



2. Visually inspect Pin (2) for bends or burrs. Replace if damaged.

3. Remove two Spring Pins (3) and (7) and discard. Separate two Retaining Clips (4) and (6) and visually inspect for bent or broken legs. Replace if damaged.

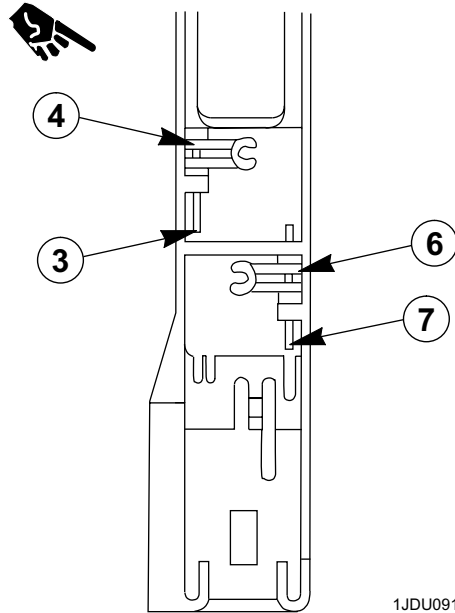
NOTE

Some heat distortion or charring may be observed on Handguard Body (5), but is not cause for replacement.

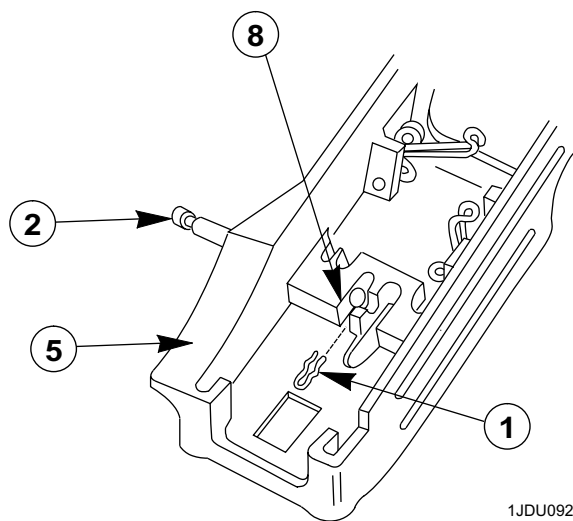
4. Visually inspect Handguard Body (5) for cracks or breaks and if damaged, replace Handguard Assembly (8).

REASSEMBLY

1. Install two Retaining Clips (4) and (6) and secure with two NEW Spring Pins (3) and (7).



2. Install tapered end of Grooved Pin (2) into Handguard Body (5), until first notch of Grooved Pin (2) is centered in first Cutout (8) of Handguard Body (5). Install NEW Retaining Clip (1).



2-17. MAINTENANCE OF BUTTSTOCK/BUFFER ASSEMBLY OR STOCK, GUN, SHOULDER: M5.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Buttstock/Buffer Assembly or Stock,
Gun, Shoulder: M5 removed.

Materials/Parts

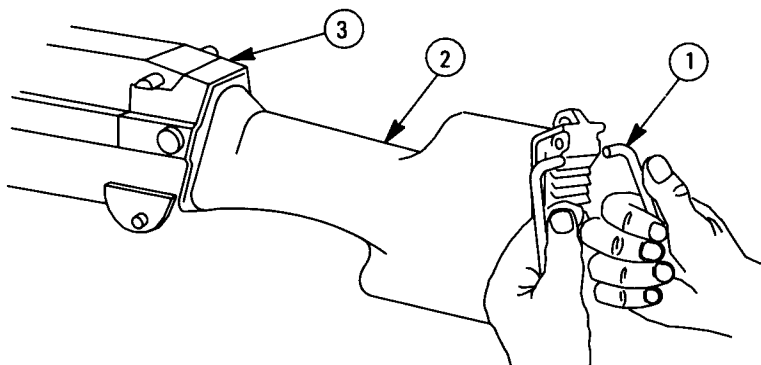
Washer 12556946

DISASSEMBLY/INSPECTION/REPAIR/REASSEMBLY

NOTE

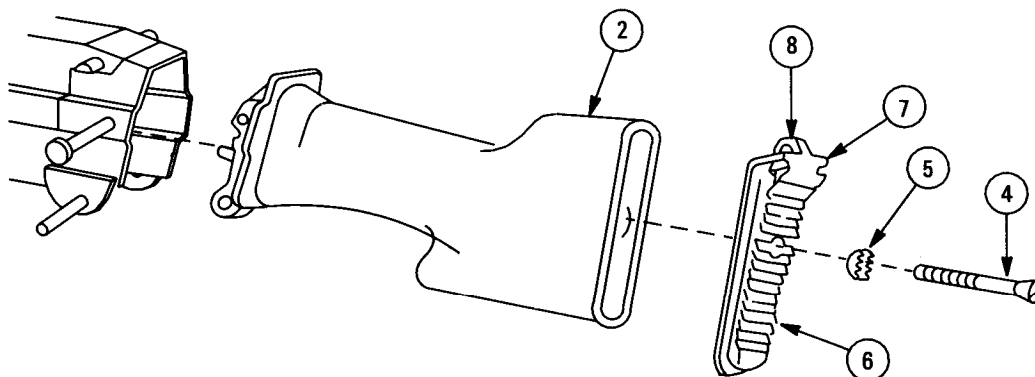
For easy removal/installation of Shoulder Rest (1), Buttstock/Buffer Assembly (2) should be placed on machine gun. Use same procedure for Stock, Gun, Shoulder: M5 (collapsible).

1. Grasp Shoulder Rest (1) with both hands, spread and separate from Buttstock/Buffer Assembly (2). Replace if damaged.



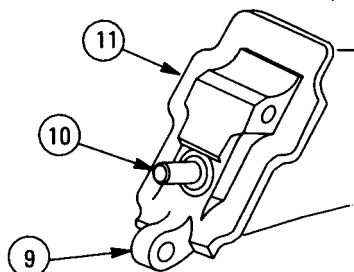
2. Remove Buttstock/Buffer Assembly (2) from Receiver (3). Inspect for cracks or other damages.

3. Remove Screw (4), Washer (5), and Buttplate (6) from Buttstock (2). Discard Washer (5). Inspect Buttplate (6) for dents, burrs, broken Tabs (7), and cracked Sling Swivel Hole (8). Inspect Screw (4) for missing or damaged threads. Replace damaged components.



4. Visually inspect Pivot Tab (9) and hole for cracks and breaks. If damaged, notify Direct Support Maintenance.

5. Inspect Buffer Plunger (10) for spring tension and oil leaks on face of Backplate (11). If spring tension does not exist or an oil leak is detected, notify Direct Support Maintenance.



6. Reassemble Screw (4), NEW Washer (5), and Buttplate (6) to Buttstock/Buffer Assembly (2).

7. Spread Shoulder Rest (1) apart with both hands and place into position on Buttstock/Buffer Assembly (2). Use same procedure for old buttstock assembly (tubular type).

2-18. MAINTENANCE OF TRIGGER MECHANISM ASSEMBLY

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900
Box Spanner 9350031

References

TM 9-1005-201-10
TM 08671A- 10/1A

Equipment Condition

Trigger Mechanism removed.

Personnel Required

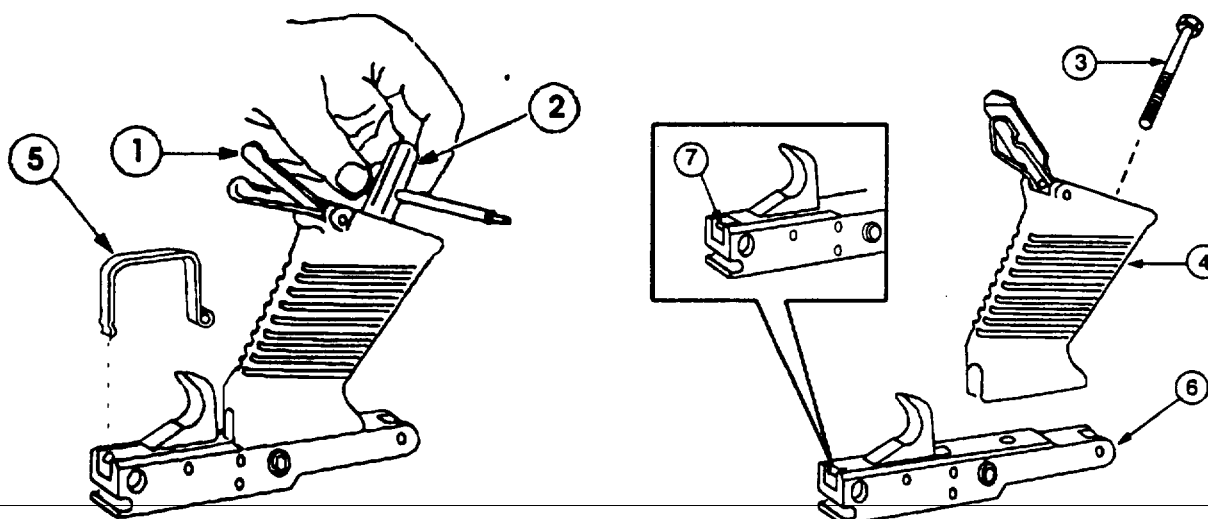
MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

DISASSEMBLY/INSPECTION/REPAIR

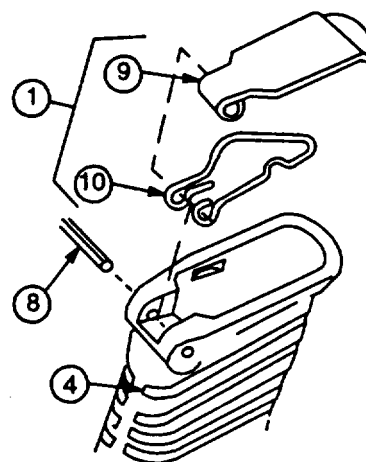
NOTE

Removal/replacement of Spring Pin (7) is not required unless defective.

1. Apply rearward pressure to front of Trigger Guard (5) until it clears Spring Pin (7) and separate.
2. Visually inspect Trigger Guard (5) and replace if bent or cracked.
3. Open Plate Assembly (1). Using 11 mm end of Box Spanner Tool (2), remove Machine Bolt (3), and Pistol Grip Assembly (4) from Trigger Mechanism (6).

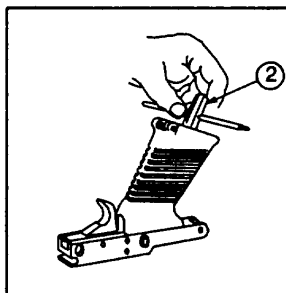
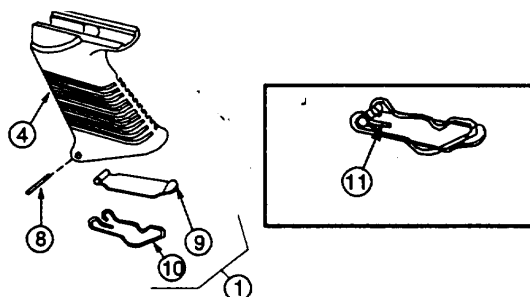


4. Drive out Spring Pin (8) and discard.
5. Remove Plate (9) and Closure Locking Clip (10).
6. Visually inspect Plate (9) for bends or cracks and Closure Locking Clip (10) for bends or breaks. Replace Plate Assembly (1) if either part is damaged or missing.
7. Visually inspect Pistol Grip (4), and replace if cracked or broken.
8. Visually inspect Trigger Mechanism (6) for missing parts, damaged holes or burrs. Inspect for bent, broken or improperly assembled sear spring. The leg of the sear spring must be behind the trigger pin to function properly and not between the trigger and the trigger pin. Notify Direct Support Maintenance if damaged, incomplete or improperly assembled.

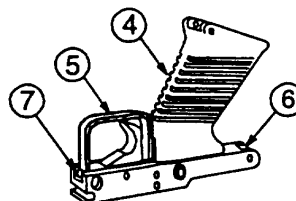


REASSEMBLY

1. Place Plate (9) inside Locking Clip (10) ensuring that the straight leg portion of the Hook Leg (11) is on the underside of Plate (9). Insert Plate Assembly (1) into Pistol Grip (4).
2. Install NEW Spring Pin (8) securing Plate Assembly (1) in Pistol Grip (4).
3. Spring Pin (8) to be centered in Pistol Grip (4).



4. Position Trigger Mechanism (6) with trigger facing upward.
5. Insert Machine Bolt (3) into Pistol Grip (4) and place on Trigger Mechanism (6). Using 11 mm end of Box Spanner Tool (2), tighten Machine Bolt (3).



6. Place loop of Trigger Guard (5) in pistol grip slot, apply rearward pressure to front of trigger guard until it clears and fits behind Spring Pin (7).

2-19. MAINTENANCE OF GAS CYLINDER.

This task covers:
Inspection/Repair

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 08671A-10/1

Equipment Condition

Gas Cylinder Assembly removed.

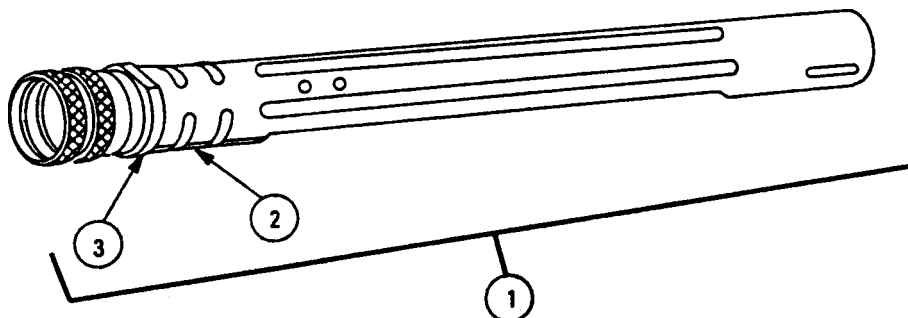
Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

INSPECTION/REPAIR

1. Visually inspect Gas Cylinder Assembly (1) for dents and burrs, and inspect Tube (2) and Head (3) for rotational movement. Visually inspect Tube (2) and Head (3) for leakage (evidence of white deposit) between Tube (2) and Head (3) of Gas Cylinder Assembly (1).

2. Replace Gas Cylinder Assembly (1) if parts are damaged or loose, or evidence of gas leakage exists.



NOTE

DO NOT lubricate inside of Gas Cylinder Assembly.

2-20. MAINTENANCE OF BIPOD ASSEMBLY.

This task covers:
Inspection/Repair

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 08671A-10/1

Equipment Condition

Bipod Assembly removed.

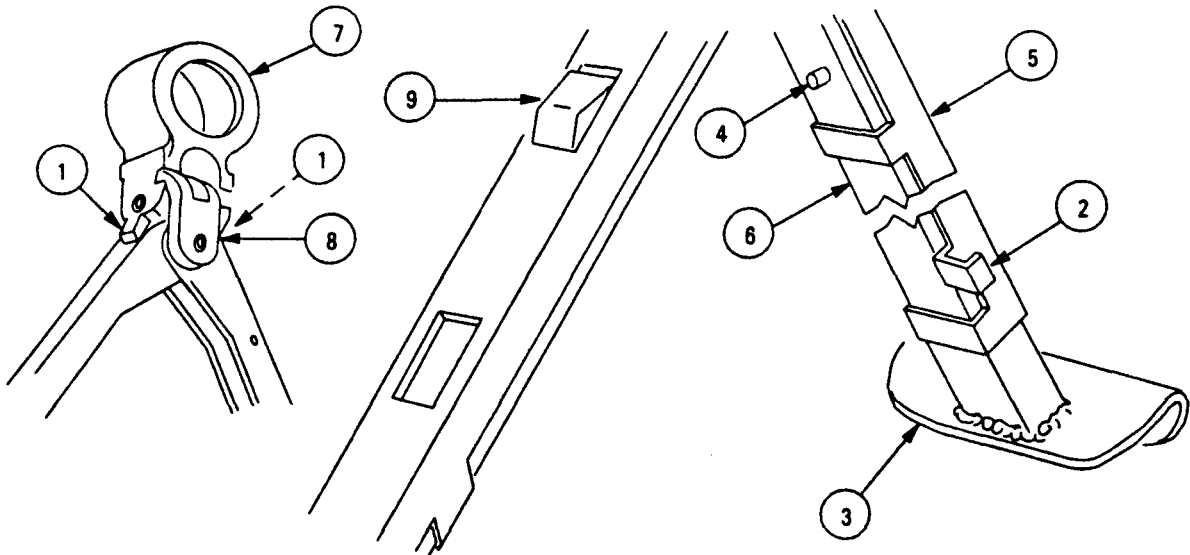
Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 211 Infantry Weapon Repairer
(USMC)

INSPECTION/REPAIR

1. Visually inspect for broken or cracked Lock Tabs (1), cracked or missing Leg Hooks (2), broken or bent Feet (3), broken Spring Pins (4), bent Outer (upper) Leg Section (5), or Inner (lower) Leg Section (6), and cracks in Yoke (7) or Pivot (8).

2. Inspect for spring tension on Latch (9). Inspect for spring tension between leg assemblies.



3. If there is unintentional extension of the Inner (lower) Leg Section (6) of the bipod, or here are damaged or missing components, notify Direct Support Maintenance.

2-21 MAINTENANCE OF RECEIVER ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Field stripped.

Materials/Parts

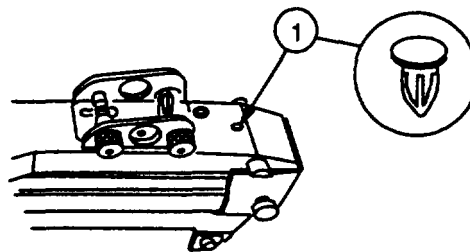
Retaining Clip 9348225
Retaining Clip 9348245
Spring Pin (2) 9348218

DISASSEMBLY/INSPECTION/REPAIR/REASSEMBLY

NOTE

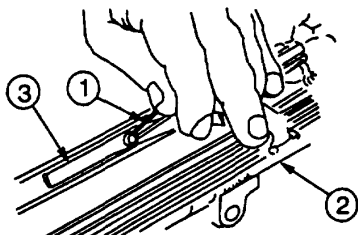
No need to remove Adapter Plug (1) if not damaged.

1. Remove Adapter Plug (1) using small screwdriver.
2. Inspect Adapter Plug (1) for cracked or broken head. Replace if damaged or missing.
3. Push Adapter Plug (1) into hole of cover assembly



DISASSEMBLY/INSPECTION/REPAIR

1. Compress Retaining Clip (1) loose from Receiver (2) and lift Ejector (3) from Receiver (2).
2. Remove Retaining Clip (1) and Cartridge Ejector Pin (4) from Cartridge Ejector (3). Discard Retaining Clip (1).

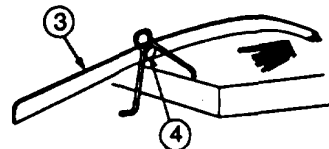


3. Visually inspect for cracks, bends, or damage.

NOTE

Tip of ejector must be well defined to ensure proper ejection. Cleaning rods can easily damage ejector tips when they are used to assure weapons are cleared on the training ranges.

4. Replace any unserviceable parts.



5. Remove and discard Retaining Clips (5) and (6) from Headed, Grooved Pin (7) and Grooved Pin (8) on rear portion of Receiver Assembly (2).

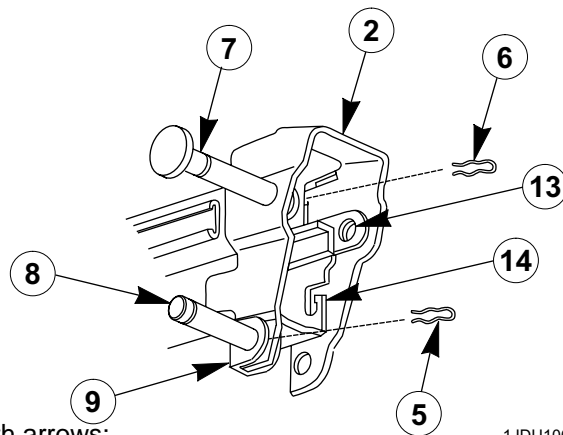
6. Remove Headed, Grooved Pin (7) from Receiver Assembly (2).

7. Remove Grooved Pin (8) and Retaining Clip (9) from Receiver Assembly (2).

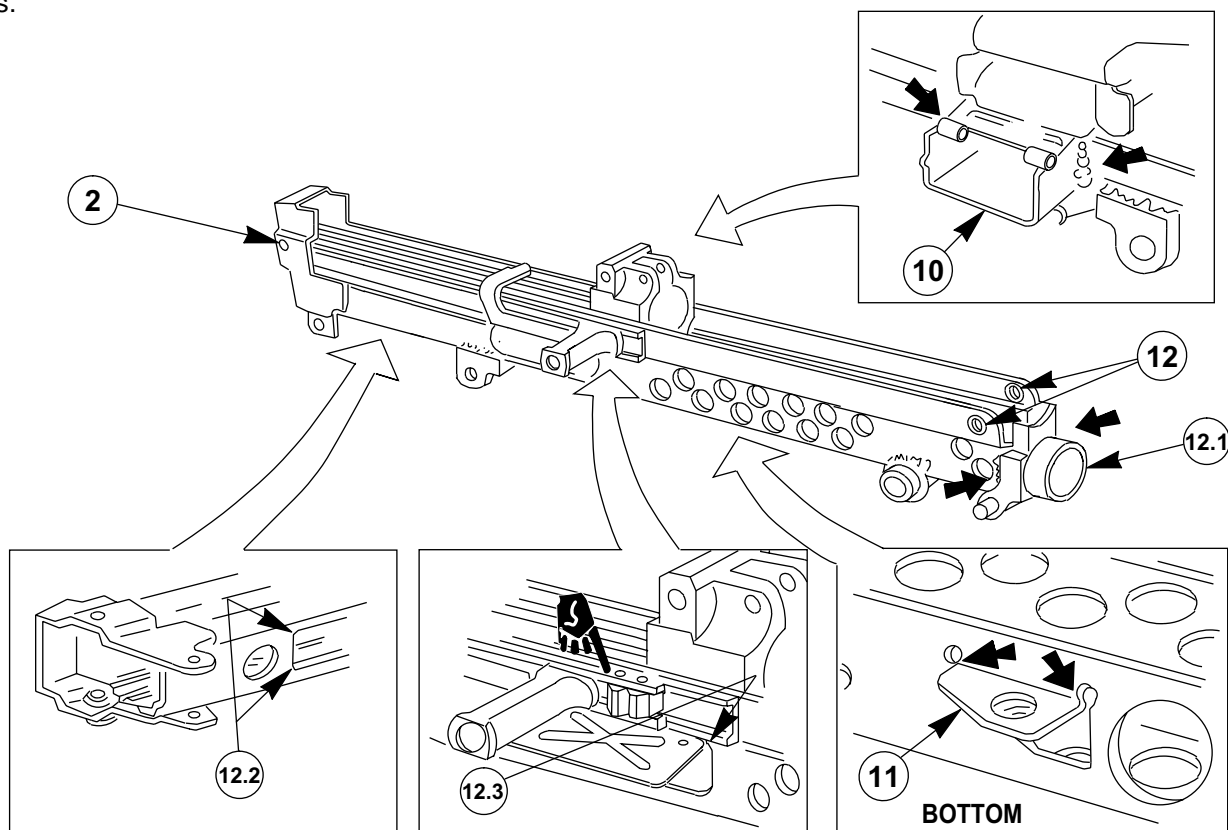
8. Visually inspect parts for cracks, breaks or burrs. Replace all unserviceable parts.

9. Inspect Receiver Assembly (2) for cracks in areas indicated with arrows:

- a. Inspect for cracks in welds around Magazine Sleeve (10) both sides.
- b. Inspect for cracked, bent or missing Handguard Tab (11).
- c. Inspect for cracked or broken Sling Holes (12), both sides.
- d. Inspect for cracks in welds of Gas Cylinder Support (12.1), both sides.
- e. Inspect for cracks in the rear radii of the Trigger Mechanism Slot (12.2) on the bottom of the receiver.
- f. Inspect for cracks in the Upper Front Radius (12.3) on the ejection port cut out.
- g. Inspect for elongation and cracks of the Take Down Pin Hole (13) in the inner rail, at the rear of the receiver, both sides.
- h. Inspect for cracked or bent Transfer Mechanism Assembly Catches/Hooks (14) inside the receiver, both sides.



1JDU106



1JDU107

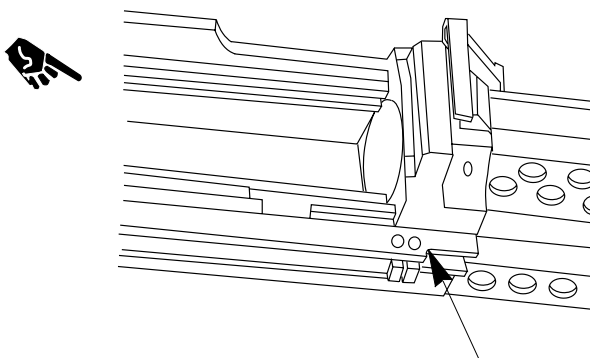
2-21. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont).

- i. Inspect for loose cocking handle stop (NEW Style). Inspect for cracks in the radii (just forward of the stop) of the cocking handle channel.

NOTE

Cover and Feed Mechanism Assembly shown removed for clarity.



NEW STYLE COCKING HANDLE STOP

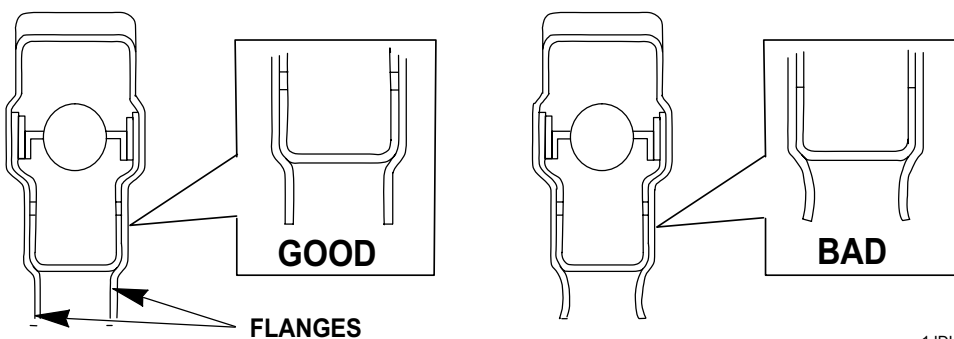
1JDU108

10. Inspect receiver for bends/damage:

- a. Inspect for bent pivot/trigger mechanism flanges on bottom rear of receiver, both sides.
b. Inspect for damaged or bent rails by charging and clearing the weapon to detect if binding occurs.

NOTE

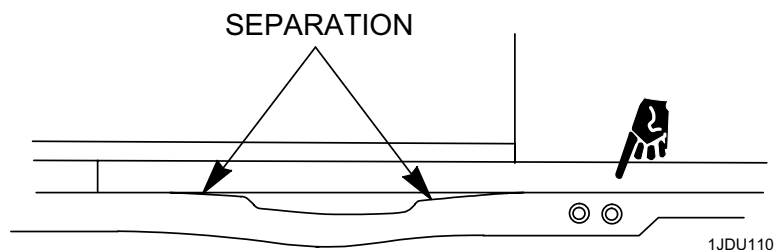
Flanges shown exaggerated for clarity.



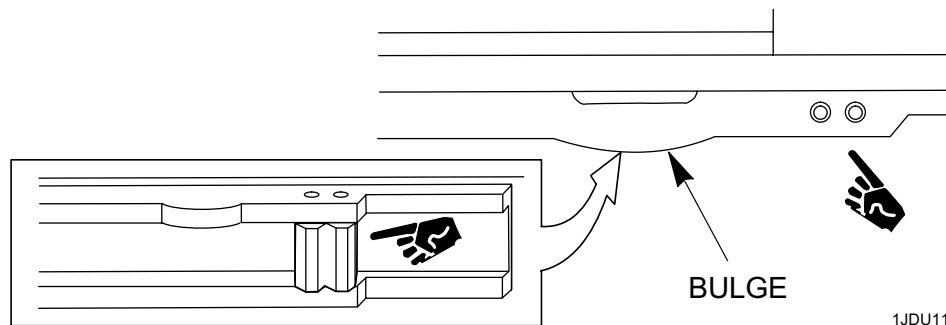
1JDU109

11. Inspect cocking handle channel for damage:

- a. Inspect for separation of cocking handle channel from the receiver side wall.

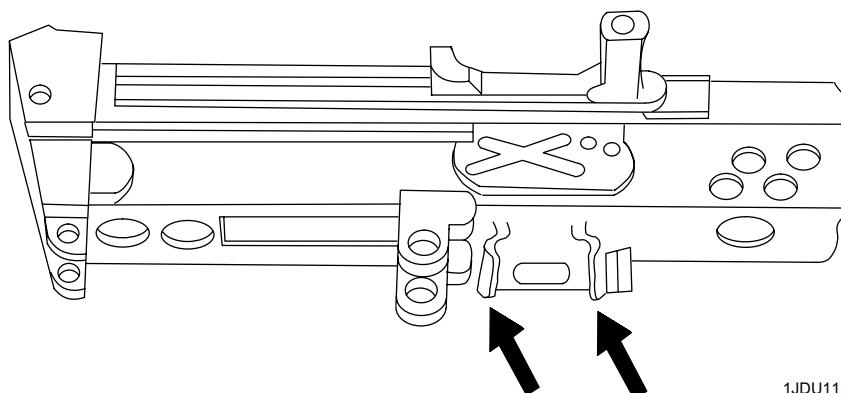


- b. Inspect the upper rail of the cocking handle channel for a bulge just rear of the cocking handle stop.



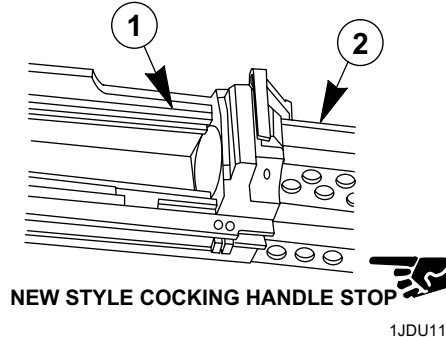
- c. Inspect for worn rails and for presence of notches created by a machining cleanup of excess weld material at new manufacture.

12. Inspect for damaged/bent magazine dovetails on the bottom of the receiver.



13. Inspect left side slide assembly rail (1) (inside receiver) for looseness.

NOTE
Cover and Feed Mechanism
Assembly shown removed
for clarity.



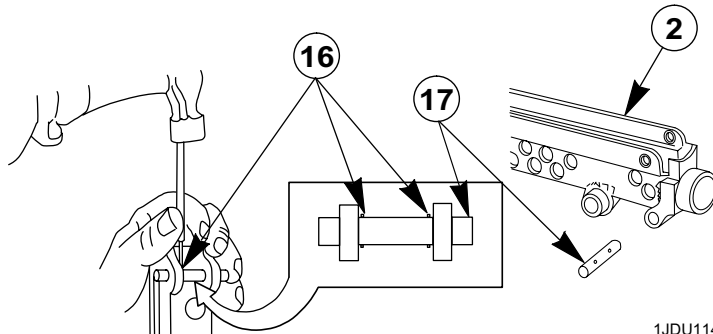
14. Inspect Receiver Assembly (2) for presence of exterior protective finish. If more than 1/3 of the exterior finish is missing, resulting in an unprotected, light reflecting surface, notify Direct Support Maintenance.

15. If the receiver is suspected of being bent or the moving parts bind when charging and clearing the weapon, or cracks exist, notify Direct Support Maintenance.

DISASSEMBLY/INSPECTION/REPAIR (Cont)

16. Drive out two Spring Pins (16) and discard. Remove Tripod Retaining Pin (17) from Receiver (2).

17. Inspect Tripod Retaining Pin (17) for bends or burrs and replace if damaged.



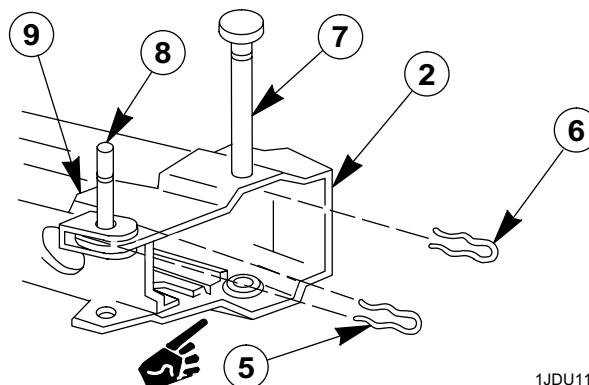
1JDU114

REASSEMBLY

1. Install Tripod Retaining Pin (17) into Receiver (2) and drive in two NEW Spring Pins (16) to protrude equally both sides of Tripod Retaining Pin (7).

2. Install Retaining Clip (9) on left side flange of Receiver (2) with square end to the front of the receiver.

3. Install Headless, Grooved Pin (8) from left side of Receiver (2).



1JDU115

WARNING

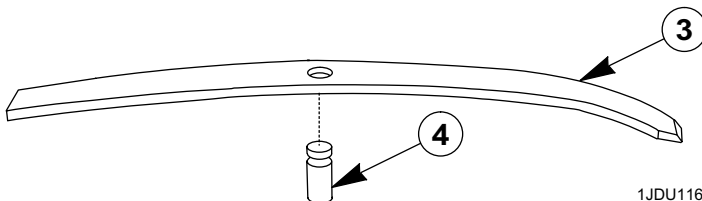
WHEN THE RETAINING CLIP (5) DOES NOT POSITIVELY RETAIN HEADLESS, GROOVED PIN (8) IN BOTH NOTCHES OR IT IS MISSING, THE HEADLESS, GROOVED PIN (8) CAN WORK OUT DURING USE. IF THE HEADLESS, GROOVED PIN (8) WORKS COMPLETELY OUT, THE TRIGGER MECHANISM CAN SEPARATE FROM THE WEAPON. SEPARATION OF THE TRIGGER MECHANISM, WHEN THE WEAPON IS IN USE (LOADED), WILL CREATE A RUNAWAY.

4. Insert Retaining Clip (5) between outside of flange of Receiver (2) and inside of Retaining Clip (9) and install into first notch of Headless, Grooved Pin (8).

5. Install Headed Grooved Pin (7) from left-side of Receiver (2).

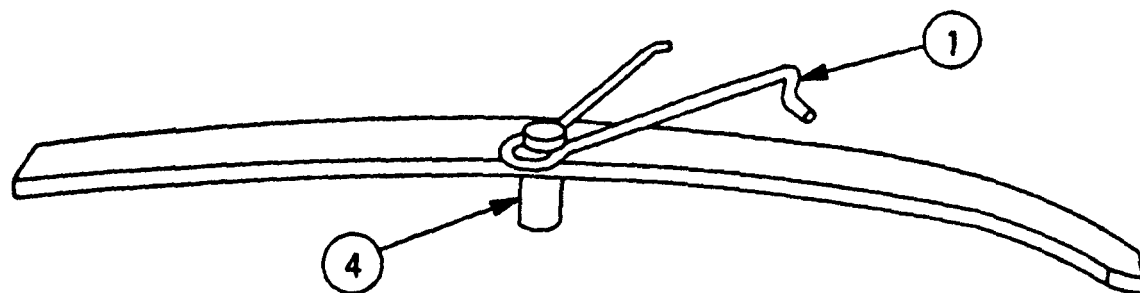
6. Insert Retaining Clip (6) between receiver side wall and rail extension on left side of Receiver (2) and install into first notch on Headed Grooved Pin (7).

7. Position Ejector (3) with cartridge ejector end to the right and insert Grooved Pin (4) from the rear side of the ejector.

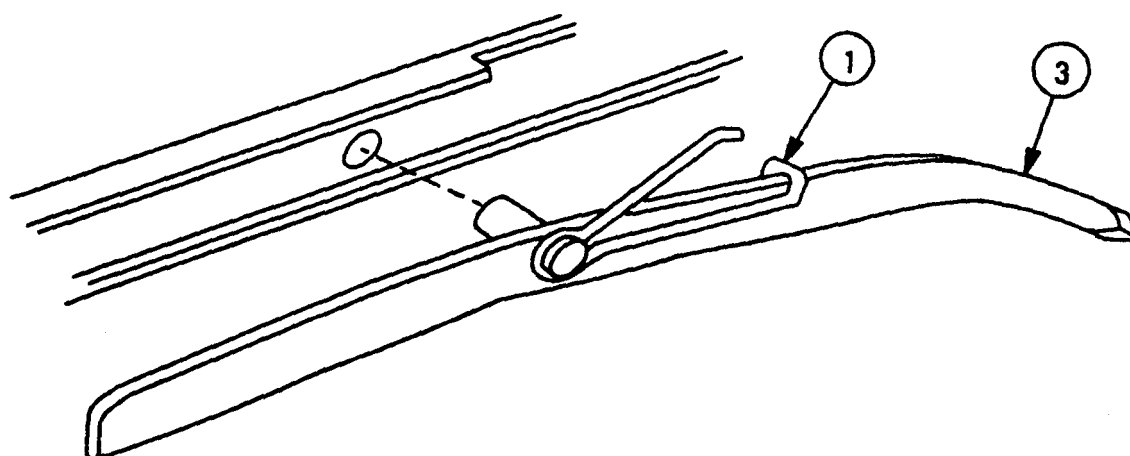


1JDU116

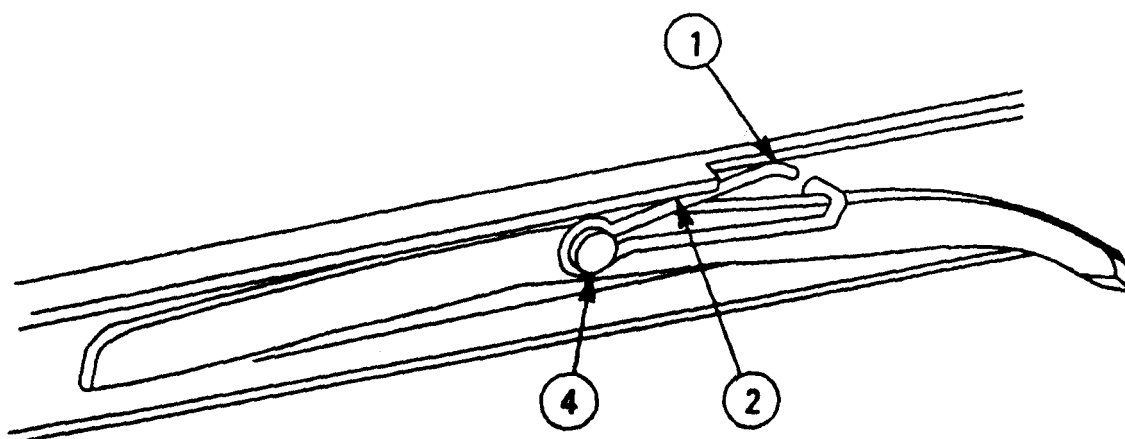
8. Position NEW Retaining Clip (1) with hooked leg up and to the right. Snap Retaining Clip (1) into notch of Ejector Pin (4).



9. Position cartridge ejector end of Ejector (3) to the front of the receiver and position hooked end of Retaining Clip (1) behind Ejector (3).



10. Install Ejector Pin (4) into hole in left side of receiver and compress short leg of Retaining Clip (1) and install in receiver recess of Receiver (2).



2-22. MAINTENANCE OF SLING AND SNAP HOOK ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Personnel Required

MOS 76Y Supply Clerk\Unit Armorer
MOS 211 Infantry Weapon Repairer
(USMC)

References

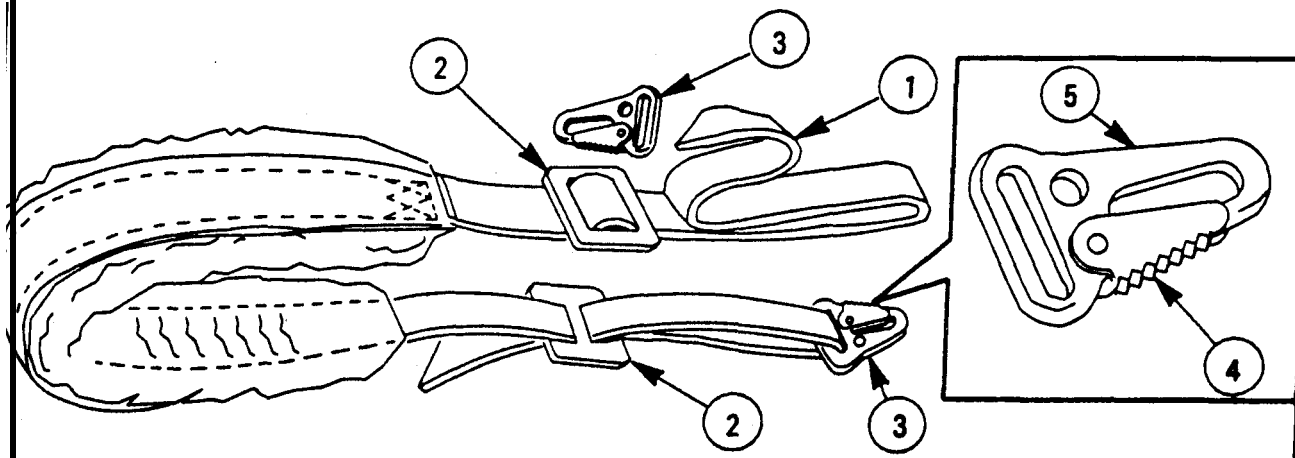
TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Sling and Snap Hook
Assembly removed.

DISASSEMBLY/INSPECTION/REPAIR/REASSEMBLY

1. Remove ends of Sling, Small Arms (1) from Buckles (2).
2. Remove two Snap Hooks (3) from Sling, Small Arms (1).
3. Visually inspect Sling, Small Arms (1) for torn webbing or stitches and two Buckles (2) for bends or breaks. Replace Sling, Small Arms (1) if unserviceable.



4. Visually inspect two Hooks (5) for bends or breaks and inspect two Snaps (4) for spring tension. Replace Snap Hook (3) if unserviceable.
5. Put two Buckles (2) on Sling, Small Arms (1) ends; put two Snap Hooks (3) on Sling, Small Arms (1) and run ends of Sling, Small Arms (1) through Buckles (2) to secure.

Section VI. INSTALLATION AND MAINTENANCE OF ADAPTER ASSEMBLY
FOR M122 TRIPOD MOUNT.

2-23. INSTALLATION OF ADAPTER ASSEMBLY.

This task covers:
Installation

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A
TM 9-1005-224-10
TM 02075E-10/1
TM 9-1005-224-24
TM 9-1005-224-24P
TM 02075E-24&P/2

Equipment Condition

Traversing and Elevating
Mechanism Assembly (T&E)
removed from M122 Tripod Mount.

INSTALLATION

NOTE

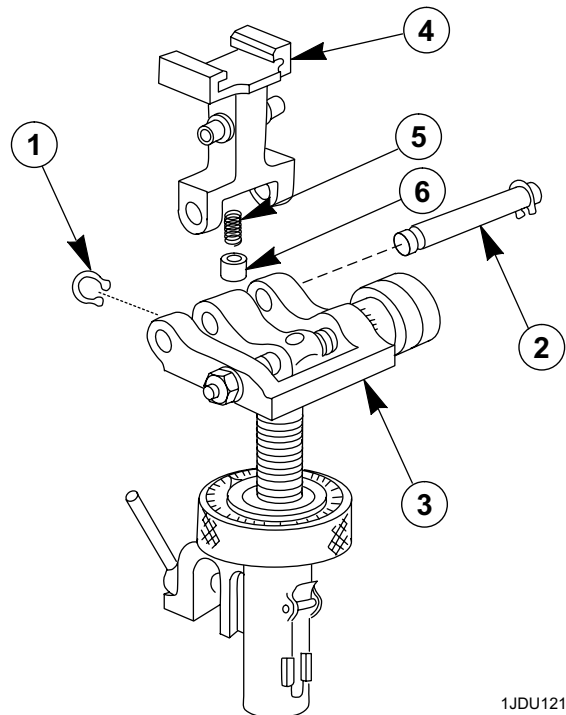
- a. To install M249 Adapter Assembly, it is necessary to disassemble the M60 adapter components from the T&E mechanism.
- b. It is not necessary to remove both Retaining Rings (1) from Retaining Pin (2).

1. Remove one Retaining Ring (1) from either end of Retaining Pin (2) and remove Retaining Pin (2) from T&E Mechanism (3).

2. Separate M60 Adapter (4), Spring (5) and Plunger (6) from T&E Mechanism (3).

NOTE

M60 Adapter (4), Spring (5) and Plunger (6) are integral components of M122 Tripod Mount, therefore should not be discarded when removed.



1JDU121

2-23. INSTALLATION OF ADAPTER ASSEMBLY (Cont)

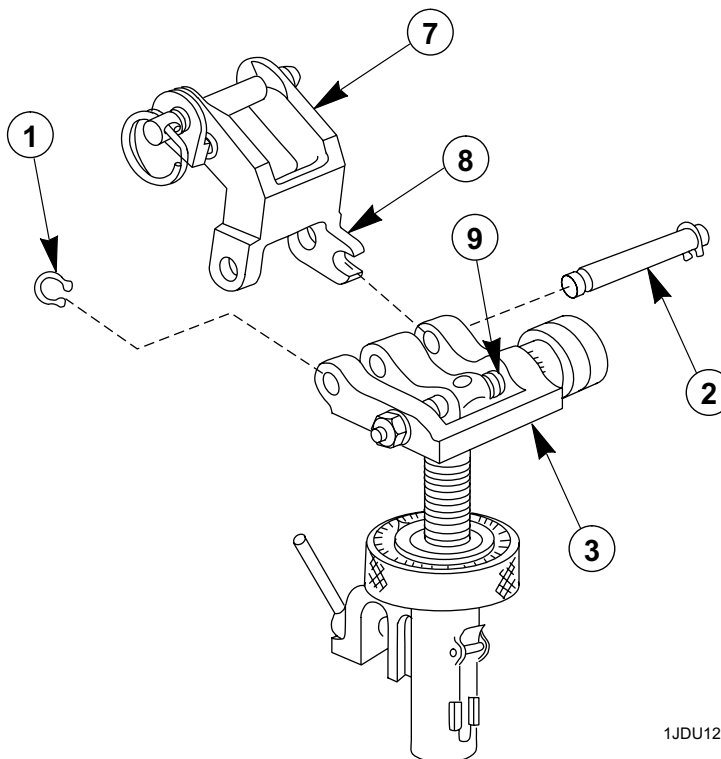
INSTALLATION (Cont)

3. Install M249 Adapter (7) by inserting Forked End (8) of adapter onto Traversing Shaft (9).

4. Aline M249 Adapter (7) with T&E Mechanism (3) holes. Insert Pin (2) and Snap Retaining Ring (1) in notch of Pin (2).

NOTE

For maintenance of T&E Mechanism (3) refer to TM 9-1005-245-13&P.



1JDU122

2-24. MAINTENANCE OF ADAPTER ASSEMBLY FOR M142.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Tool Kit, Small Arms Repairman
SC 5180-95-CL-A07
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 76Y Supply Clerk/Unit Armorer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

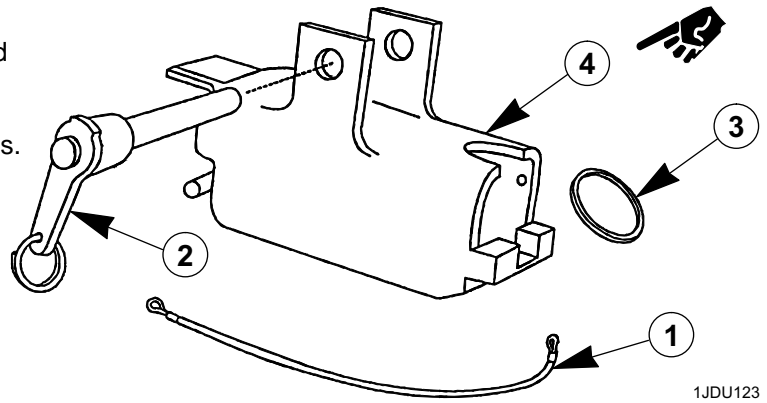
TM 9-1005-245-13&P

Equipment Condition

M142 Adapter Assembly removed from Mount.

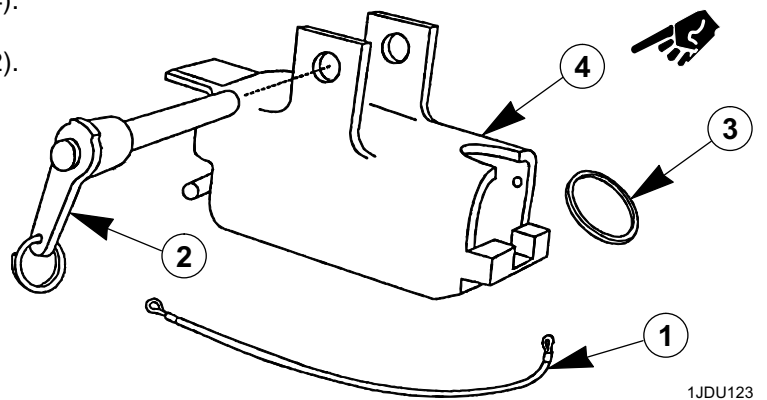
DISASSEMBLY/INSPECTION/REPAIR

1. Remove Lanyard (1) from ring of Detent Pin (2) and from Ring (3), and replace if frayed or broken.
2. Remove Ring (3) from Adapter Body (4) and replace if bent or broken.
3. Inspect Adapter Body (4) for bends or cracks. If damaged replace Adapter Assembly.



REASSEMBLY

1. Assemble Ring (3) in hole of Adapter Body (4).
2. Assemble Lanyard (1) to ring of Detent Pin (2).

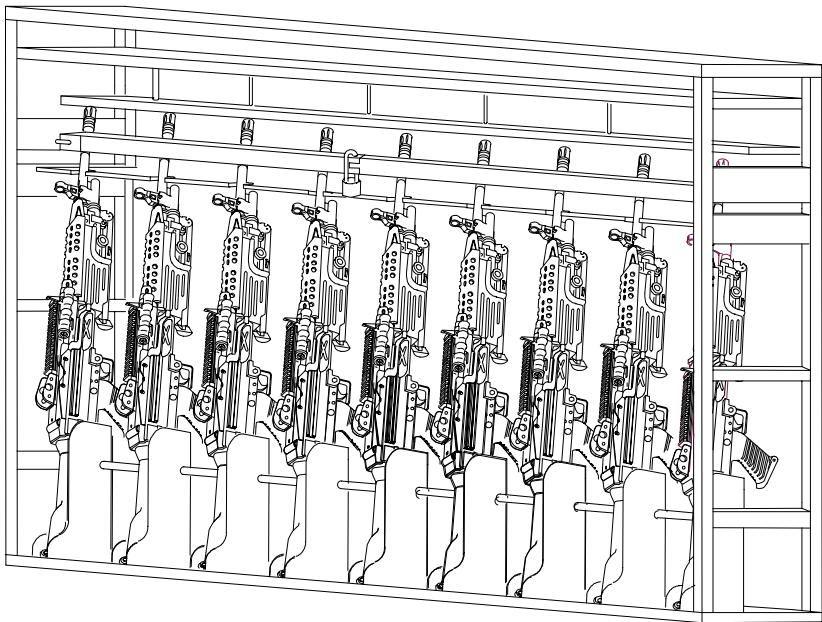


Section VII. UTILIZATION OF AUXILIARY EQUIPMENT

2-25. APPLICATION OF RACK, STORAGE, SMALL ARMS, M13.

This task covers: N/A

INITIAL SETUP: N/A



1JDU125

Illustration shows M13 rack with nine M249 machine guns stored.

NOTE

Rack storage, small arms, M13, LIN S66490, NSN 1095-01-197-7902, is authorized by CTA 50-909 and is a non-repairable item. This rack is 51-1/8 inches long, 43-3/8 inches high, 12 inches thick and stackable. If required, touch-up with Olive Drab (OD) Enamel, NSN 8010-00-848-9272.

Section VIII. MAINTENANCE OF BLANK FIRING ATTACHMENT.

2-26. MAINTENANCE OF BLANK FIRING ATTACHMENT.

This task covers:
Inspection/Repair

INITIAL SETUP

Materials/Parts

- Masking Tape (item 8, app D)
- Blank Firing Attachment for M249 (red)
- Enamel (item 11, app D)

References

- TM 9-1005-201-10
- TM 9-1005-201-10 (NSN: 1005-21-912-8997)
- TM 08671A-10/1A

Personnel Required

- MOS 76Y Supply Clerk/Unit Armorer
- MOS 2111 Infantry Weapon Repairer (USMC)

INSPECTION/REPAIR

1. Inspect blank firing attachment for cracks or distortion and replace if damaged.
2. Touch-up or repaint body of blank firing attachment as required with Enamel (item 11, app D). Clean and remove lubricant prior to applying paint. Mask off areas (restrictor tube and ring) that do not require painting, using, Masking Tape (item 8, app D).

CHAPTER 3 DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

CHAPTER OVERVIEW

This chapter contains information and instructions for the repairman to keep the machine gun in good repair. This chapter consists of repair parts; special tools; common tools and equipment; fabricated tools; troubleshooting; maintenance procedures; and final inspection. This chapter also contains information and instructions regarding preparation for storage and shipment, and pre-embarkation inspection of material.

Section I. REPAIR PARTS, SPECIAL TOOLS, COMMON TOOLS AND EQUIPMENT AND FABRICATED TOOLS

3-1. REPAIR PARTS. Repair parts are listed and illustrated in the repair parts and special tools list (app C) covering unit and direct support maintenance for this equipment.

3-2. SPECIAL TOOLS. Tools and test equipment are listed in appendix B.

3-3. COMMON TOOLS AND EQUIPMENT. For authorized common tools and equipment, refer to Modified Table of Organization and Equipment (MTOE) applicable to your unit.

3-4. FABRICATED TOOLS. Fabricated tools are listed and illustrated in appendix E.

Section II. TROUBLESHOOTING

3-5. DIRECT SUPPORT TROUBLESHOOTING. Refer to troubleshooting table for malfunctions, tests, and corrective actions (para 2-8, pg 2-11).

Section III. MAINTENANCE PROCEDURES

NOTES

All assemblies/subassemblies will be clean prior to inspection and repair.

When a machine gun is received at direct support maintenance, all gaging requirements must be checked as a standing maintenance procedure. In addition, the weapon must be inspected and any other deficiencies found will be repaired, and noted for repair at the appropriate maintenance level. Weapons must be inspected and/or gaged at least once annually for safety and serviceability. Guard and reserve weapons are to be gaged and inspected at least once every two years after initial gaging unless usage, deployment or other maintenance indicates a need for more frequent inspection/gaging. It is recommended that training unit weapons be inspected/gaged after every training cycle. Regardless of weapon ownership, initial gaging/inspection will be one year after receipt of new or overhauled weapons. The appropriate interval starts at this time.

Burrs or raised surfaces may be removed or smoothed using a fine grit sharpening stone or crocus cloth (item 5, app D). DO NOT change the dimensions of any component by stoning. Cracks, chips, dents or gouges on components shall be reported to the appropriate maintenance level for repairs or replacement.

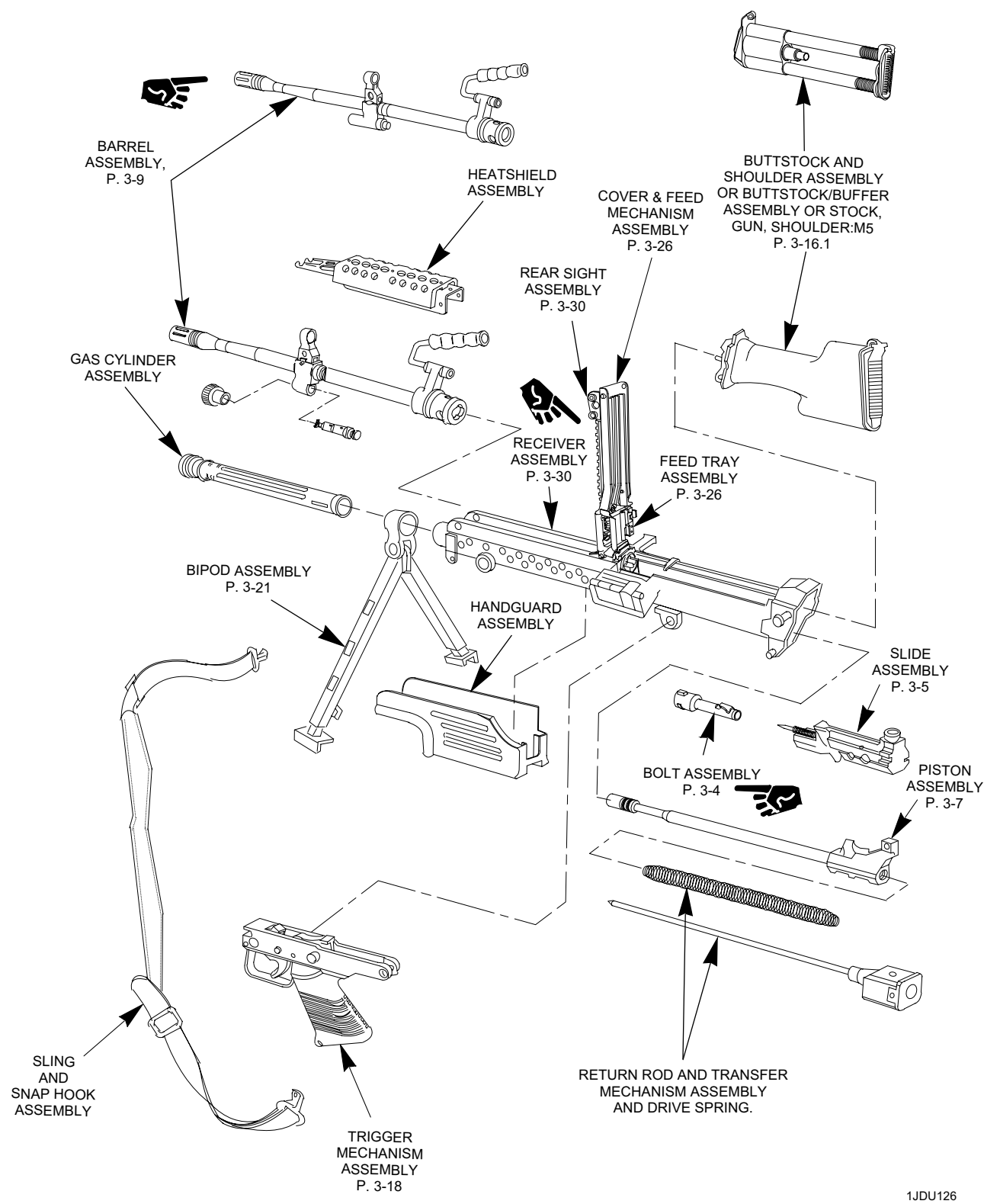
All assembly/subassembly parts will be lightly lubricated with Cleaner, Lubricant, and Preservative (CLP) (item 1, app D) prior to assembly unless otherwise specified.

3-6. MAINTENANCE OF MACHINE GUN.

This task covers: Disassembly/Inspection/Repair/Reassembly			
INITIAL SETUP			
Tools and Special Tools		References	
Tool Kit, Small Arms Field Maintenance		TM 9-1005-201-10	
SC 4933-95-CL-A11		TM 08671A-10/1A	
Tool Kit, Small Arms Repairman			
USMC TAM No. E2900		Materials/Parts	
		Cleaner, Lubricant, and Preservative (CLP)	
		(item 1 app D)	
Personnel Required		Solid Film Lubricant (item 7, app D)	
MOS 45B Small Arms Repairer		Masking Tape (item 8, app D)	
MOS 2111 Infantry Weapon Repairer		Wiping Rags (item 3, app D)	
(USMC)			

DISASSEMBLY/INSPECTION/REPAIR/REASSEMBLY

WARNING	
Make certain weapon is cleared and that there is no obstruction in the barrel or chamber (to include spare barrel).	
1. Field strip weapon in accordance with TM 9-1005-201-10/TM 08671A-10/1A.	
2. Visually inspect assemblies for damage.	
3. Repair assemblies as required in accordance with chapters 2 and 3 of this manual.	
4. Touch-up external surfaces (surfaces should not reflect light) as required, using Solid Film Lubricant (item 7, app D). Mask off areas that do not require touch-up, using Masking Tape (item 8, app D).	
5. Lightly lubricate all metal surfaces of components, using CLP (item 1, app D) and Wiping Rags (item 3, app D), except as noted.	
6. Reassemble in accordance with TM 9-1005-201-10/TM 08671A-10/1A.	
WARNING	
Barrels (to include spare barrel) and Bolts must NOT be interchanged with other M249 Machine Guns unless they have been checked for proper headspace.	



1JDU126

3-7. MAINTENANCE OF BOLT ASSEMBLY.

This task covers:
Cleaning/Inspection/Repair

INITIAL SETUP

Materials/Parts

Cleaner, Lubricant, and Preservative (CLP)
(item 1, app D)
Wiping Rag (item 3, app D)
Inspection Penetrant (item 6, app D)

References

TM 9-1005-201-10
TM 08671A-10/1A

Personnel Required

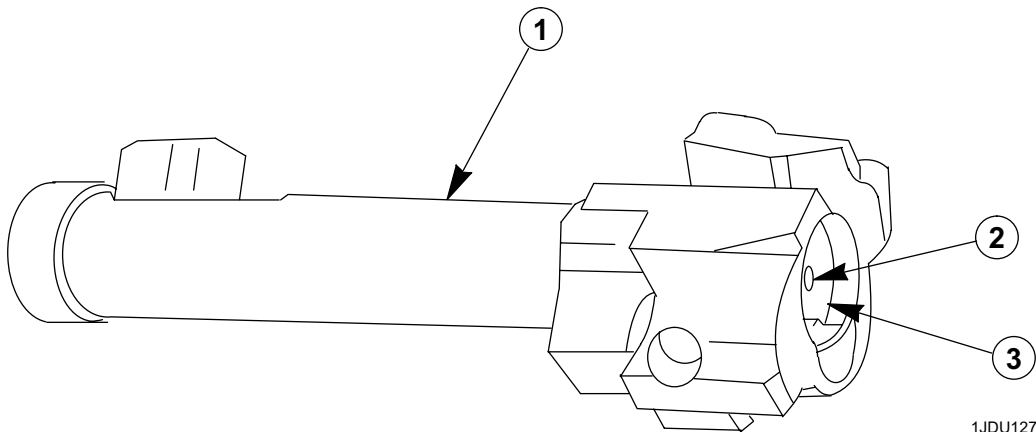
MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

Equipment Condition

Bolt Assembly removed.
and disassembled.

CLEANING/INSPECTION/REPAIR

1. Thoroughly clean Bolt (1) using CLP (item 1, app D) and wipe dry with Wiping Rag (item 3, app D). Bolt must be free of oil, dirt, corrosion and carbon prior to inspection.
2. Inspect Bolt Body (1) for cracks using Inspection Penetrant (item 6, app D), Firing Pin Hole (2) for elongation and Bolt Face (3) for pits.
3. If Bolt Body (1) is cracked Firing Pin Hole (2) is elongated, or Bolt Face (3) exhibits more than minor pits replace with a new bolt.



NOTE

Replacement of Bolt (1) may also be required if headspace requirements cannot be met during maintenance of Barrel Assembly.

3-8. MAINTENANCE OF SLIDE ASSEMBLY.

This task covers:
Disassembly/Cleaning/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

Materials/Parts

Cleaner, Lubricant, and Preservative (CLP)
(item 1, app D)
Wiping Rag (item 3, app D)
Inspection, Penetration (item 6, app D)

References

TM 9-1005-201-10
TM 08671A-10/1

Equipment Condition

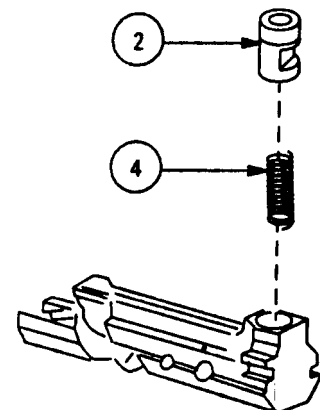
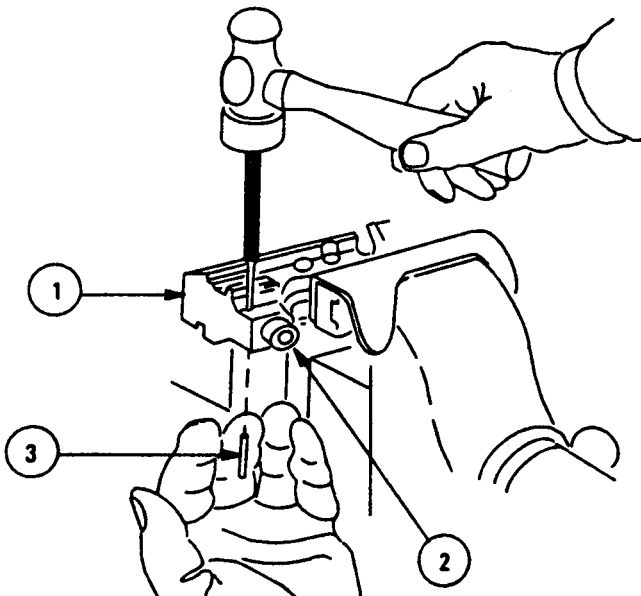
Slide Assembly removed.
Firing Pin and Spring removed.

DISASSEMBLY

1. Place Slide Assembly (1) in protective jawed vice with Feed Roller Assembly (2) facing you and Spring Pin (3) accessible.
2. Drive out Spring Pin (3) and discard.
3. Remove Feed Roller Assembly (2) and Spring (4).

NOTE

Feed Roller Assembly (2) is under spring tension. Care should be taken not to lose parts when Pin (3) is removed.

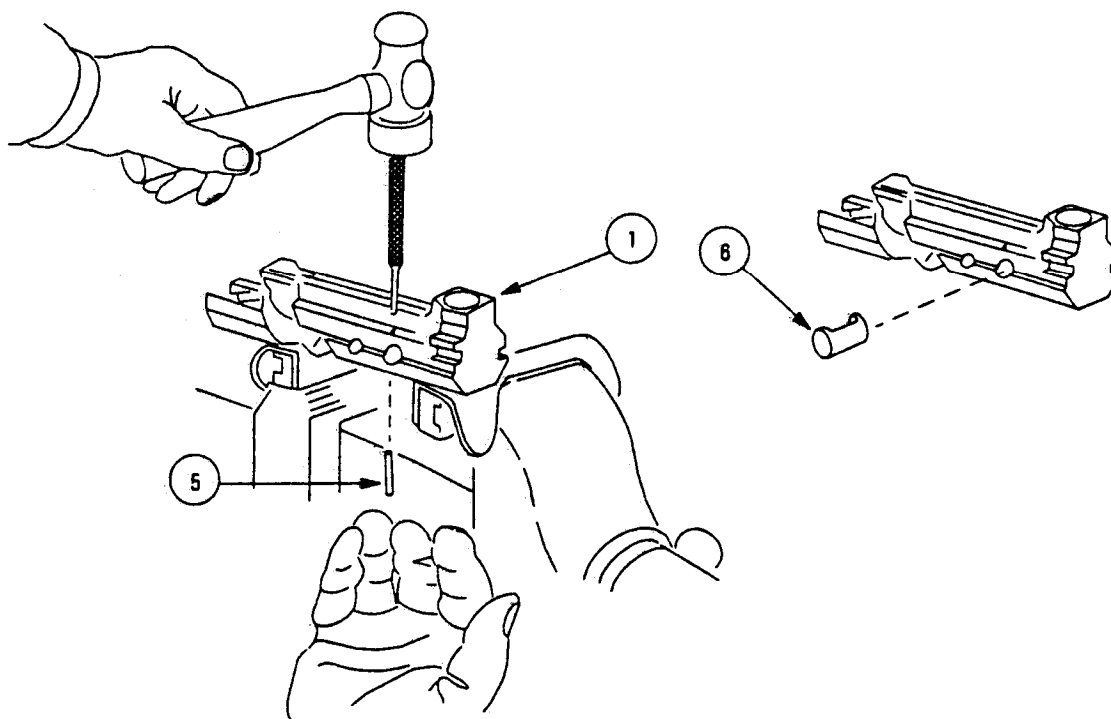


3-8. MAINTENANCE OF SLIDE ASSEMBLY (Cont).

DISASSEMBLY

4. Reposition Slide Assembly (1) on top of vise with jaws slightly open. Drive out Spring Pin (5) and discard.

5. Remove Pivot Slide (6).



CLEANING/INSPECTION/REPAIR

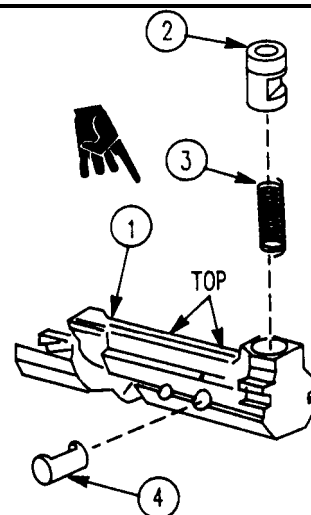
1. Thoroughly clean Slide Body (1) using CLP (item 1, app D), and wipe dry with Wiping Rag (item 3, app D). Slide Body (1) must be free of oil, dirt, corrosion and carbon prior to inspection.

2. Inspect Slide Body (1) for cracks using Inspection Penetrant (item 6, app D). Inspect top of Slide Body (1) for bulges caused by a cookoff. If cracked or bulged, replace.

3. Inspect Feed Roller Assembly (2). It must rotate freely. Replace if bent, broken or does not rotate freely.

4. Visually inspect Spring (3). Replace if broken or has lost tension.

5. Visually inspect Pivot Slide (4). Replace if broken or cracked.



REASSEMBLY

1. Install Pivot Slide (1) into Slide Body (2) with flat portion facing spring pin hole. Drive in NEW Spring Pin (3) flush with bottom of Slide Body (2).

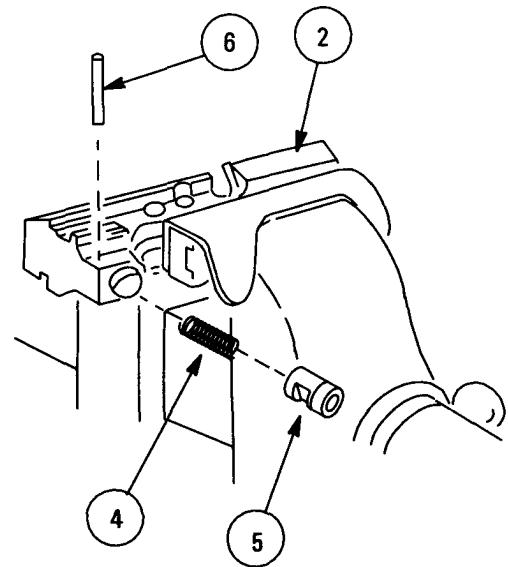
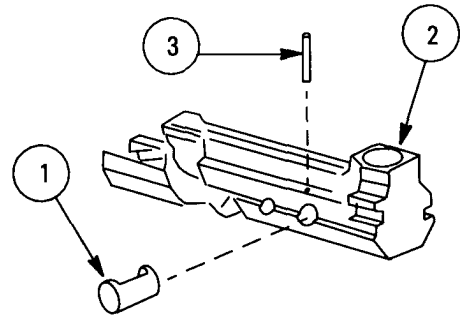
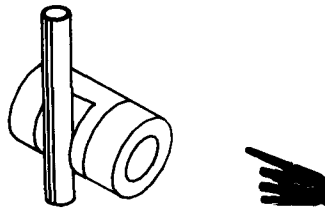
2. Place Slide Body (2) in a protected jawed vise with roller hole facing you.

3. Install Spring (4) and Roller Assembly (5) in Slide Body (2). Aline flat portion of Roller Assembly (5) with pin hole in Slide Body (2).

4. Compress Roller Assembly (5) and install NEW Spring Pin (6). Pin (6) must not protrude from either side.

NOTE

Assure both spring pins are installed with flat (open) sides toward non-functional sides of Pivot Slide (1) and Roller Assembly (5).



3-9. MAINTENANCE OF PISTON ASSEMBLY.

This task covers:
Inspection/Repair

INITIAL SETUP

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Bolt and Slide Assemblies removed
from Piston Assembly.

3-9. MAINTENANCE OF PISTON ASSEMBLY (Cont).

INSPECTION AND REPAIR

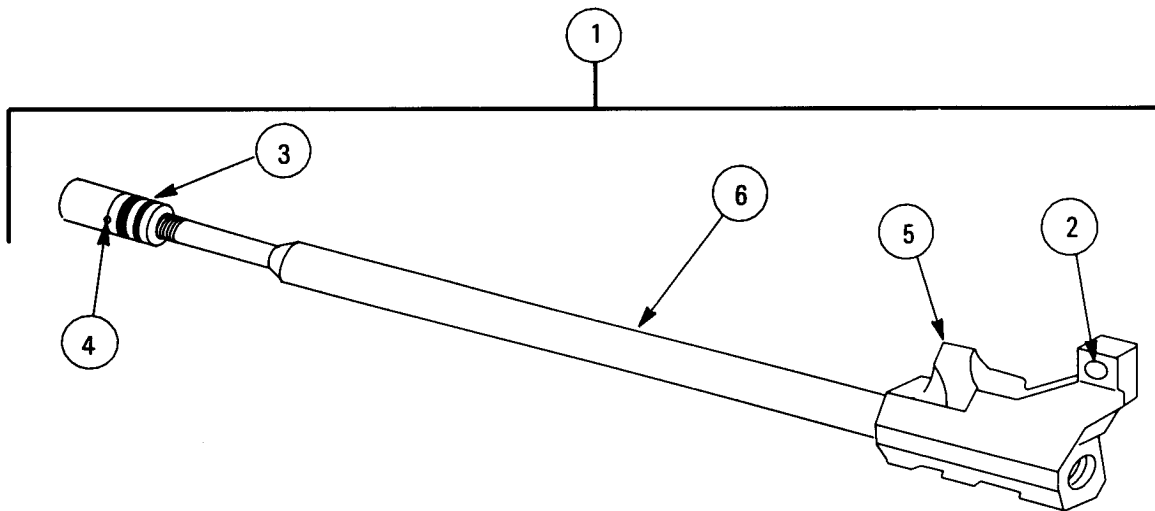
CAUTION

Piston (3) and Tube Portion (6) are adjusted at the factory and are NOT to be disassembled or altered.

1. Visually inspect Piston Assembly (1) for bends, breaks, or cracks. Visually inspect hole (2) for cracks. Visually inspect Piston (3) for missing Spring Pins (4). Inspect for looseness between Tower Portion (5) and Tube Portion (6).

NOTE

Slight rotational and lateral movement (looseness) of the Piston (3) is normal and not cause for rejection. DO NOT lubricate Piston (3).



2. If any parts are damaged or missing, and if looseness exists between Tower Portion (5) and Tube Portion (6), replace Piston Assembly (1).

3-10. MAINTENANCE OF BARREL ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900
Tool, Adjusting, Front Sight Base
9350034
Tool, Assembly, Front Sight
12540422
Gage, Breech Bore Erosion
9350096
Gage Headspace 9350102

References

TM 9-1005-201-10
TM 08671A-10/1A
TM 9-4933-273-12&P

Equipment Condition

Barrel Assembly removed.
Gas Collar and Gas Regulator
removed.

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

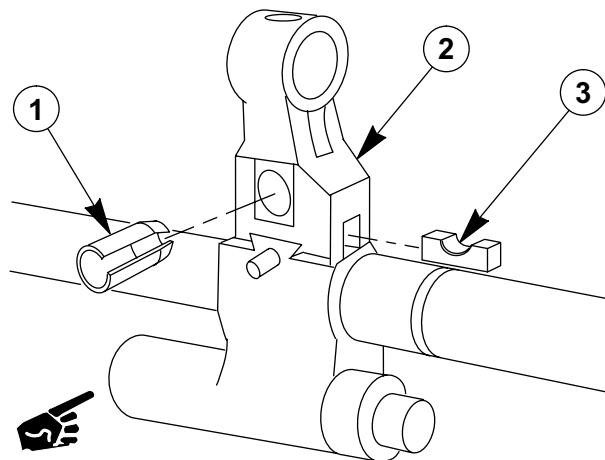
DISASSEMBLY

NOTE

Disassembly instructions are identical for both old and new style barrel assemblies.

1. Drive out Spring Pin (1) from right to left side of Front Sight Base (2) using 5/16" punch and alternating strikes from top to bottom to reduce binding. Discard Spring Pin (1).

2. Remove Front Sight Base (2) and Key (3).



NEW STYLE
BARREL SHOWN

1JDU136

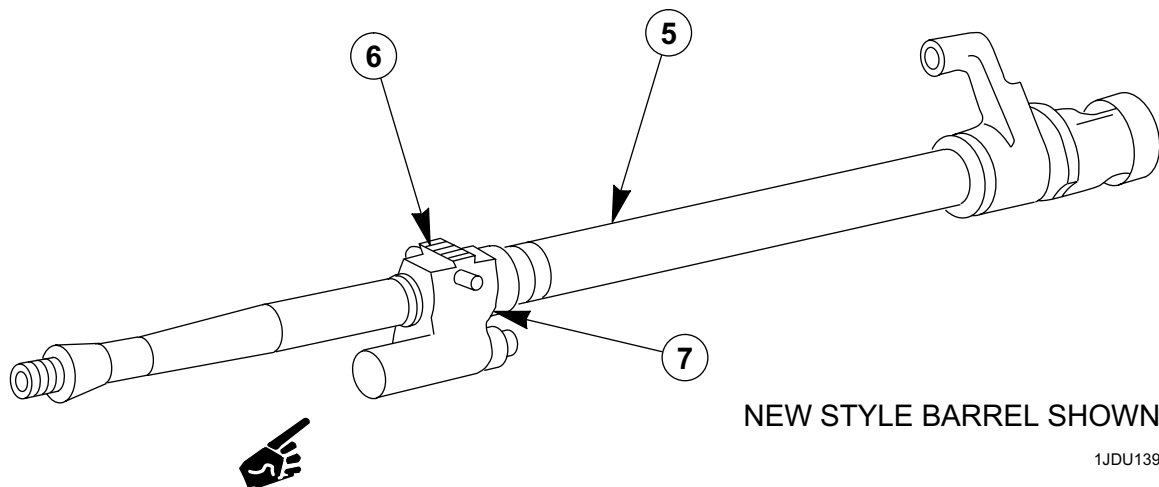
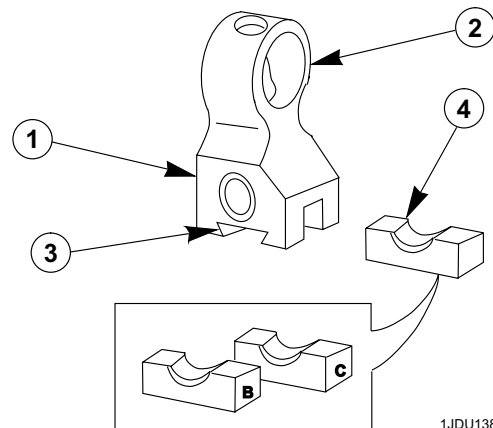
3-10. MAINTENANCE OF BARREL ASSEMBLY (Cont).

INSPECTION/CLEANING/REPAIR

NOTE

Inspection and repair procedures are identical for both old and new style barrel assemblies, although only the new style barrel is shown.

1. Visually inspect Front Sight Base (1) in Hooded Area (2) for bends and in Dovetail Area (3) for damage. If damaged, replace Front Sight Base (1).
2. Visually inspect Key (4) for burrs. Replace if damaged or missing. Replace Key (4) if letters "B" or "C" appear on end of key.
3. Visually inspect Barrel (5) for bends, and the Dovetail Area (6) of the Gas Block (7) for damage. Replace Barrel (5) if bent or Gas Block (7) is damaged.



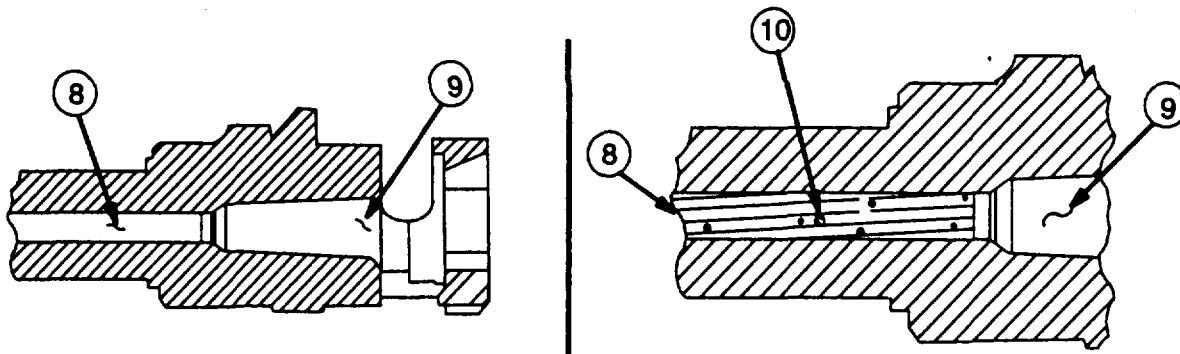
NOTE

Barrel bore and chamber must be clean and dry before the following inspections.

4. Visually inspect Bore (8) and Chamber (9) for pits, using the following criteria:
 - a. Pits in the Chamber (9) are allowable if they are not large enough to cause extraction difficulties. If extraction difficulties are experienced, replace barrel.
 - b. Pits in the Bore (8) are allowed if they are less than the width of a land or Groove (10) in width or length. If pits are greater than the width of a land or groove in width or length, replace.

All data on pages 3-10.1/(3-10.2 blank) deleted.

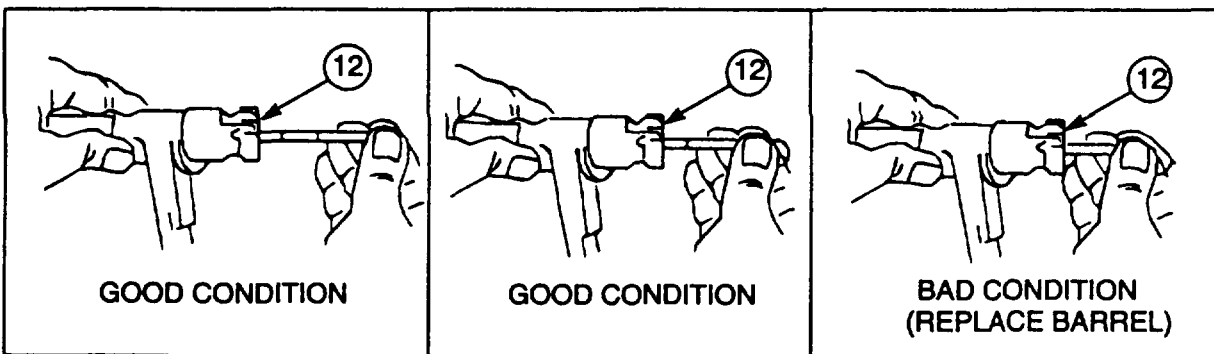
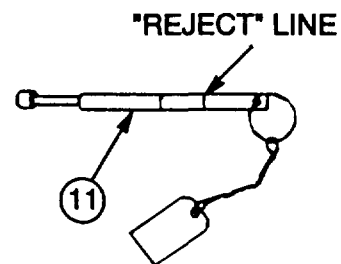
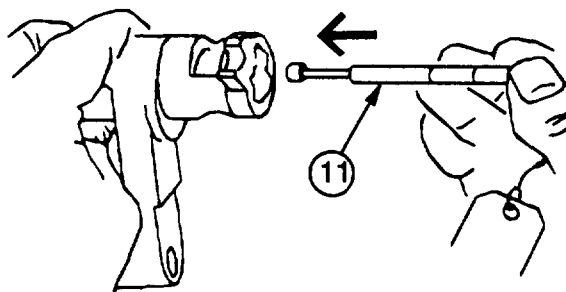
- c. Scattered or uniformly fine pits in both Chamber (9) and Bore (8) are allowable.



5. Inspect Bore (8) for erosion using the following procedures:

- a. Gently, but firmly insert the Breech Bore Erosion Gage (11) as far as it will go.

- b. There are two gage lines on the Breech Bore Erosion Gage (11). The line farthest from the front of the gage is the "REJECT" line. Read the gage by looking across the end of the Barrel Breech (12). If the "REJECT" line on the gage enters the Barrel Breech (12), the barrel is unserviceable and must be replaced.



3-10. MAINTENANCE OF BARREL ASSEMBLY (Cont.)

INSPECTION/CLEANING/REPAIR (Cont.)

6. Inspect both Barrels (5) (weapon and spare) for proper headspace using the following procedures:

NOTE

Use Bolt Assembly that accompanied the weapon/barrel assembly.

Prior to headspacing, lock bolt in the barrel to get a feel for the natural friction and identify where the cam lug is located when the bolt is locked.

- a.** Insert tapered end of Headspace Gage (12) into Barrel (5).
- b.** Insert Bolt (13) into Barrel (5) and (with slight pressure) attempt to lock Bolt (13) (by rotating to the left) with Headspace Gage (12) installed.

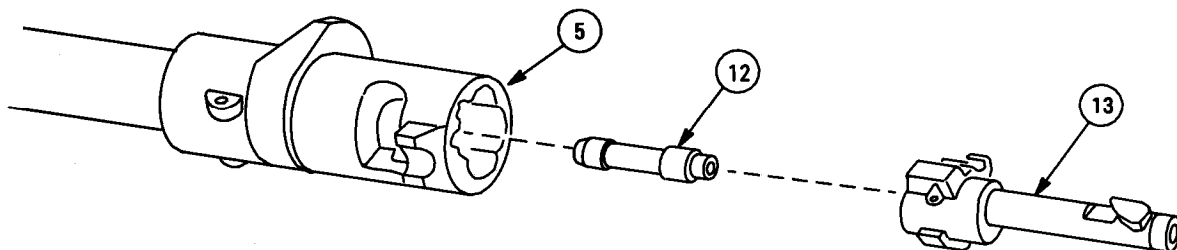
CAUTION

Forcing the bolt closed will harm the gage and give you an incorrect reading.

- c.** Barrel (5) and Bolt (13) are considered to have proper headspace if Bolt (5) DOES NOT lock into Barrel (5) with Headspace Gage (12) installed. If the bolt seems to lock, but more resistance is felt than without the gage in place, headspace is correct.

NOTE

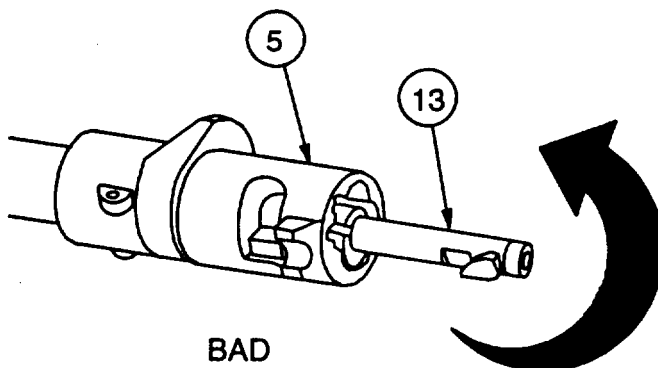
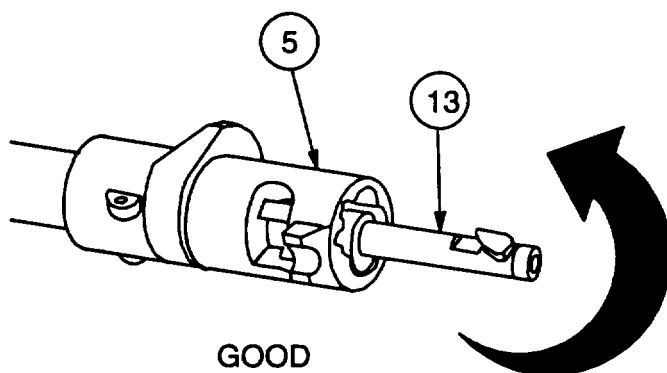
Barrel (5) and/or Bolt (13) may be defective if Bolt (13) locks into Barrel (5) with Headspace Gage (12) installed.



d. If Bolt (13) locks into Barrel (5) with no resistance, headspace is faulty and the defective component must be determined.

e. To determine the defective component, follow steps 1 and 2 below:

(1) Repeat headspacing using OLD Bolt (13) and NEW Barrel (5). If headspace is still incorrect (bolt locks into barrel) Bolt (13) is unserviceable and should be replaced. If headspace is now correct, repeat headspacing (see step 2 below).



3-10. MAINTENANCE OF BARREL ASSEMBLY (Cont).

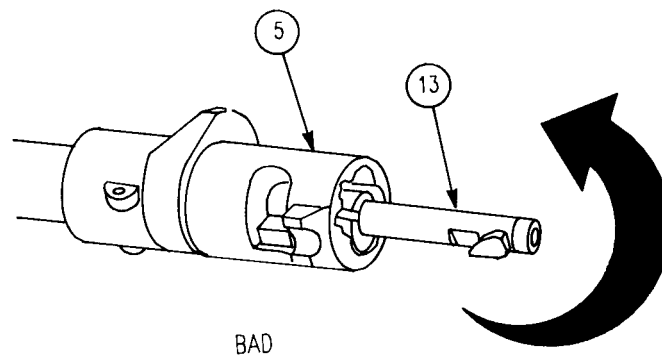
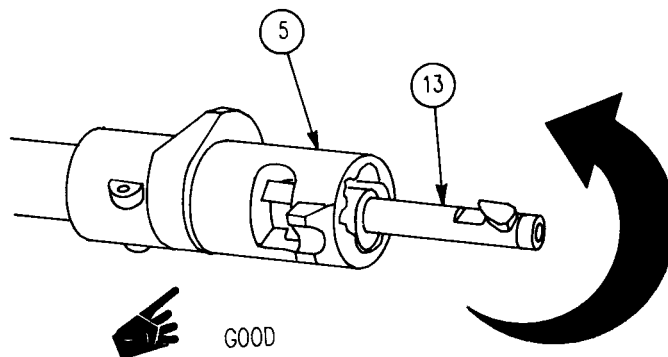
INSPECTION/CLEANING/REPAIR (Cont)

f. Repeat headspacing using NEW Bolt (13) and OLD Barrel (5). If headspace is still incorrect (bolt locks into barrel) Barrel (5) is unserviceable and should be replaced.

NOTE

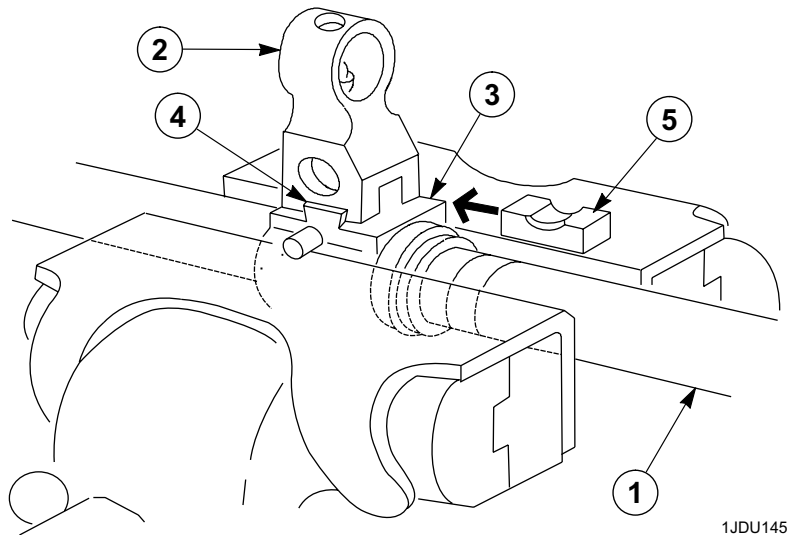
Both barrels and bolt, assigned to the weapon, must pass head-spacing check. If the bolt is replaced, ensure that both barrels pass the headspace check.

If at any time a NEW barrel and NEW bolt does not headspace, take action to have headspace gage calibrated.



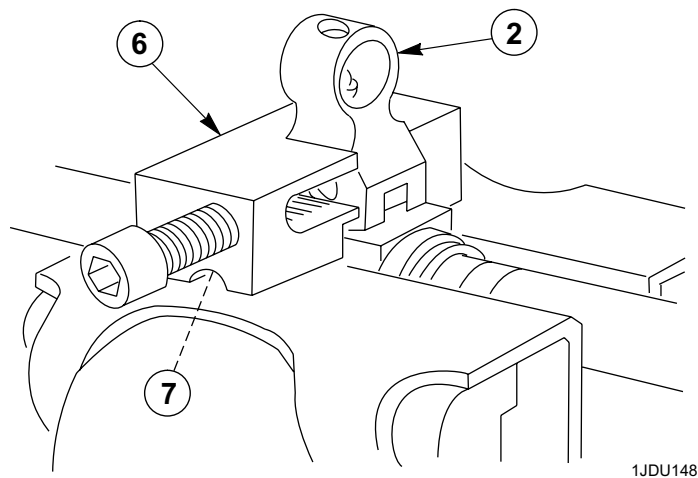
REASSEMBLY - OLD AND NEW STYLE BARRELS

1. Place Barrel (1) in a protective jawed vise, clamp in gas block area with the front sight portion up.
2. Center Front Sight Base (2) on the Gas Block (3), so one Serration (4) is visible each side of Front Sight Base (2). Install Key (5) with the large chamfered (beveled) edge to the left side of sight.



NEW/OLD STYLE BARRELS

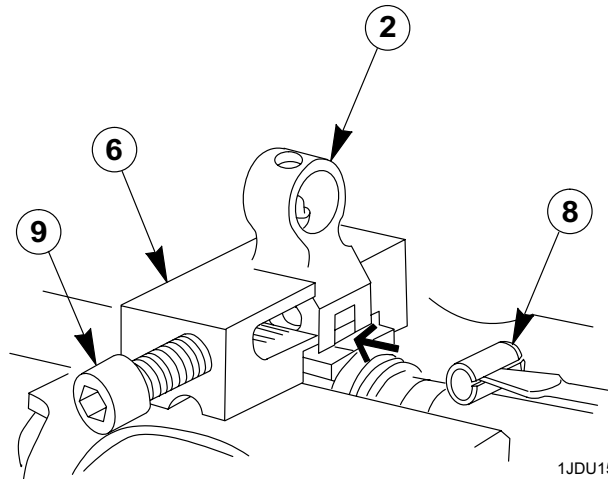
3. Position the Front Sight Assembly Tool (6) over the Front Sight Base (2) and Gas Block Pin (7).



3-10. MAINTENANCE OF BARREL ASSEMBLY (Cont).

REASSEMBLY – OLD AND NEW STYLE BARREL (Cont)

4. With slot of NEW Spring Pin (8) facing rear of Front Sight Base (2), position into side cutout of Front Sight Assembly Tool (6). Hold Spring Pin (8) in position, using blade of flat tip screwdriver. By turning Screw (9), press Spring Pin (8) into Front Sight Base (2) until it stops.
5. Back out Screw (9) and remove Front Sight Assembly Tool (6).
6. Using 5/16 inch punch and alternating strikes from top to bottom, to reduce binding, drive in Spring Pin (8) until pin stops against right side of Front Sight Base (2).



3-11. MAINTENANCE OF BUTTSTOCK/BUFFER ASSEMBLY OR STOCK, GUN, SHOULDER: M5.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 08671A-10/1A

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

Equipment Condition

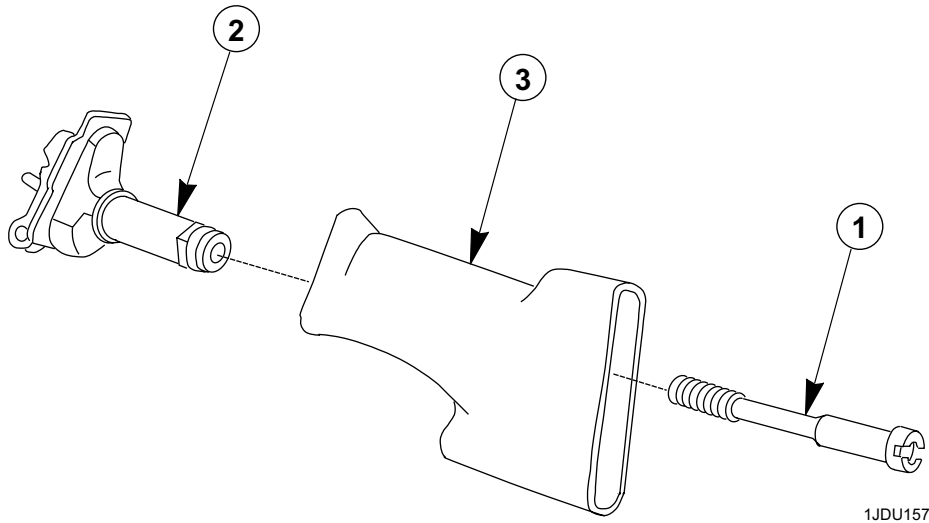
Buttstock/Buffer Assembly separated
and Buttplate and Shoulder Rest removed.
or
Shoulder Rest removed from Stock, Gun,
Shoulder: M5

Materials/Parts

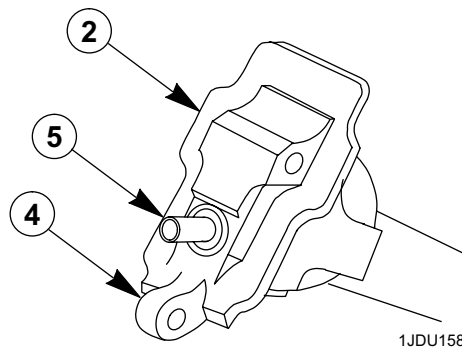
Retaining Ring 12956148
Tapered Pin 9348387
Sealing Compound (item 10, app D)

DISASSEMBLY/INSPECTION/REPAIR - BUTTSTOCK/BUFFER ASSEMBLY

1. Remove Screw (1) and Backplate and Buffer Assembly (2) from Buttstock (3).



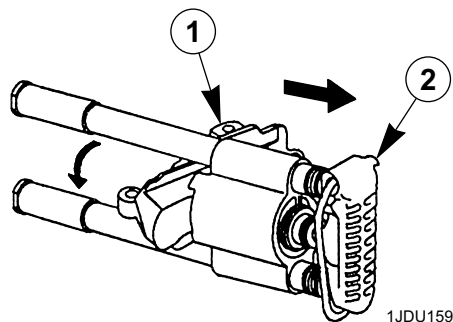
2. Visually inspect Screw (1) for bends and burrs, and replace if damaged.
3. Visually inspect Pivot Tab (4) and Hole of Backplate and Buffer Assembly (2) for cracks and breaks. Replace if damaged.
4. Inspect Buffer Plunger (5) for spring tension, and oil leaks on face of Backplate and Buffer Assembly (2). If spring tension does not exist or an oil leak is detected, replace Backplate and Buffer Assembly (2).
5. Visually inspect Buttstock (3) for holes, cracks, or breaks, and replace if damaged.



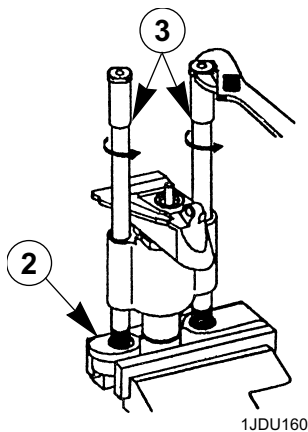
3-11. MAINTENANCE OF BUTTSTOCK/BUFFER ASSEMBLY OR STOCK, GUN, SHOULDER: M5 (Cont).

DISASSEMBLY – STOCK, GUN, SHOULDER: M5

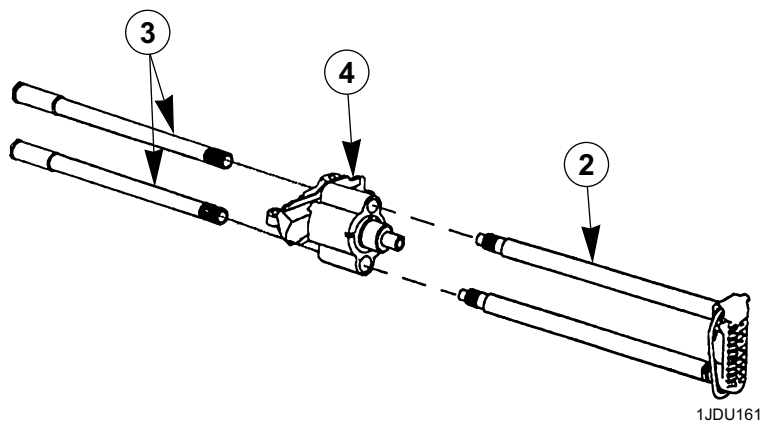
1. Pull back on Buffer and Backplate Assembly (1) and rotate 90 degrees.
2. Push Buttplate Assembly (2) to the collapsed position.



3. Secure Buttplate Assembly (2) in protective jawed vise. Using adjustable wrench, unscrew two plastic Tubes (3) counterclockwise.

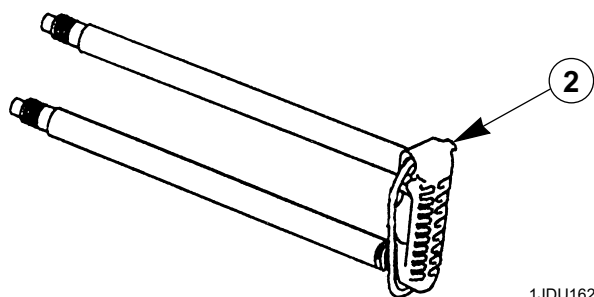


4. Remove Tubes (3) and Buttplate Assembly (2) from Buffer and Body Assembly (4).



5. Inspect Tubes (3) for breaks or cracks and replace if damaged.

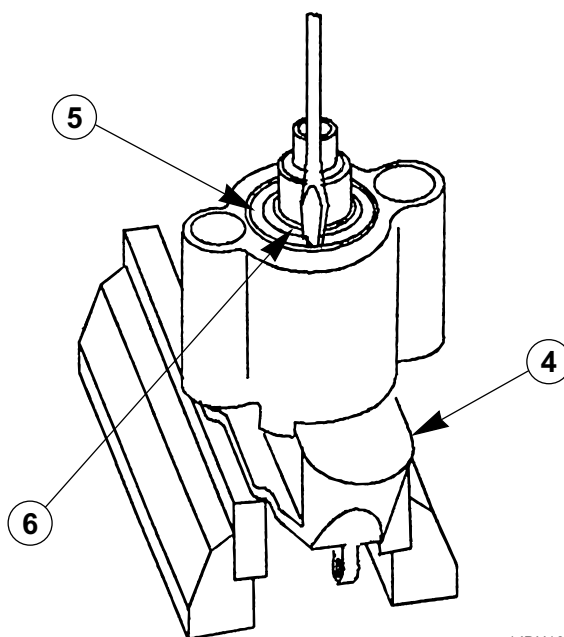
6. Inspect Buttplate Assembly (2) for damaged threads, bent rods, loose rods in the area where they join the Buttplate Assembly (2) and dented, burred or broken tabs on the buttplate.



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7. Place Buffer and Body Assembly (4) in protective jawed vise.

8. Compress Sleeve (5) and using a flat tip screwdriver, spread Retaining Ring (6) by twisting, and pry out of Buffer and Backplate Assembly (1).



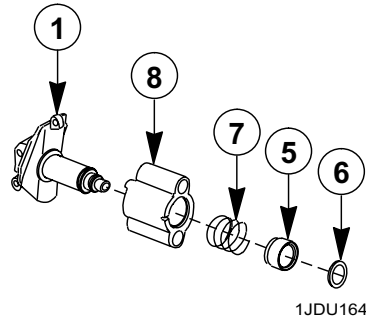
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3-11. MAINTENANCE OF BUTTSTOCK/BUFFER ASSEMBLY OR STOCK, GUN, SHOULDER: M5 (Cont).

WARNING

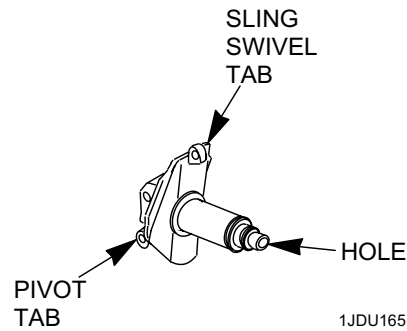
Sleeve and retaining ring are under spring tension.

9. Separate Retaining Ring (6), Sleeve (5), Spring (7), and Buttstock Assembly Body (8) from Buffer and Backplate Assembly (1). Discard retaining ring.

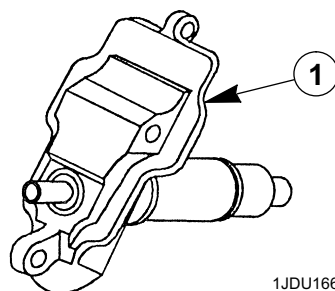


10. Inspect Sleeve (5) for deformation and replace if damaged. Inspect Spring (7) for breaks or cracks and replace if damaged. Inspect Buttstock Assembly Body (8) for dents, broken or cracked ears and bent or broken spring ring and replace Buttstock Assembly Body (8) if damaged.

11. Inspect pivot tab, sling swivel tab and hole of Buffer and Backplate Assembly (1) for cracks and breaks. Replace if damaged.

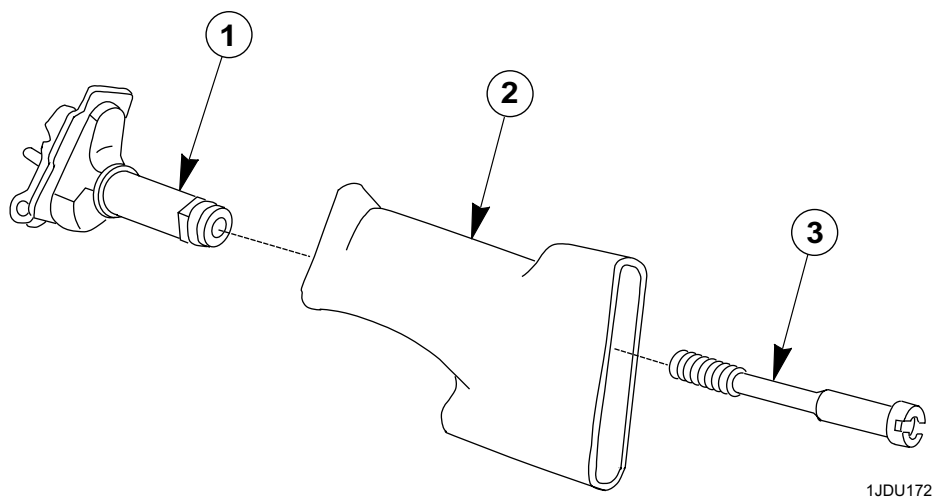


12. Inspect buffer plunger for spring tension, and oil leaks on face of Buffer and Backplate Assembly (1). If spring tension does not exist or an oil leak is detected, replace Buffer and Backplate Assembly (1).



REASSEMBLY - BUTTSTOCK/BUFFER ASSEMBLY

Install Backplate and Buffer Assembly (1) into Buttstock (2). Insert Screw (3) into Backplate and Buffer Assembly (1) and tighten securely.



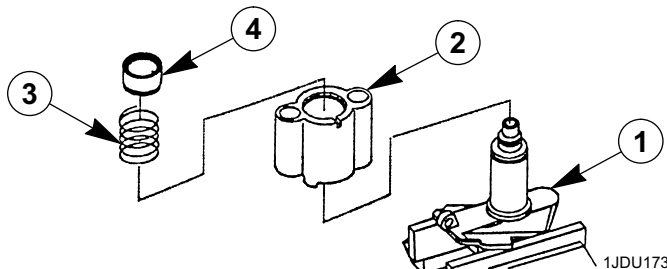
3-11. MAINTENANCE OF BUTTSTOCK/BUFFER ASSEMBLY OR STOCK, GUN, SHOULDER: M5 (Cont).

REASSEMBLY - STOCK, GUN, SHOULDER: M5

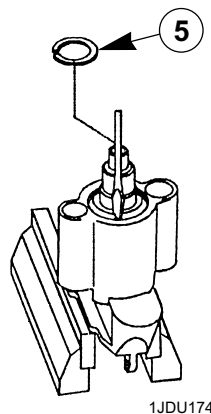
WARNING

SLEEVE AND RETAINING RING ARE UNDER SPRING TENSION.

1. Place Buffer and Backplate Assembly (1), with buffer plunger down, in protective jawed vise, and slide Buttstock Assembly Body (2), Spring (3), and Sleeve (4) over Buffer and Backplate Assembly (1).

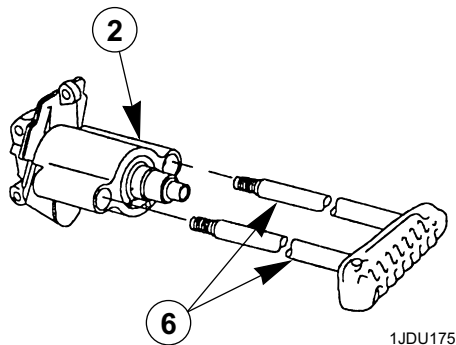


2. Compress Sleeve (4) and Spring (3) and install NEW Retaining Ring (5) in groove of Buffer and Backplate Assembly (1).

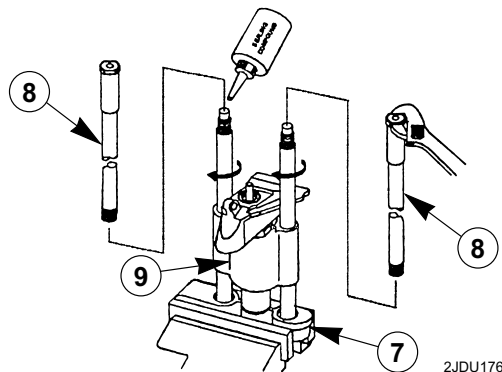


3. Clean residue sealing compound from threads of the rods using a wire brush.

4. Insert Rods of Buttplate Assembly (6) through holes of Buttstock Assembly Body (2) with shoulder rest holes of buttplate to the left.



5. Place Buttplate Assembly (7) in protective jawed vise. Apply a drop of sealing compound (item 10, app D) to the threads of each rod. Install Tubes (8) over Rods and through holes in Buffer and Body Assembly (9). Tighten (turn clockwise) Tubes (8) securely into recessed holes of Buttplate Assembly (7) using an adjustable wrench.



3-12. MAINTENANCE OF TRIGGER MECHANISM ASSEMBLY

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Trigger Mechanism removed.
Pistol Grip removed.

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

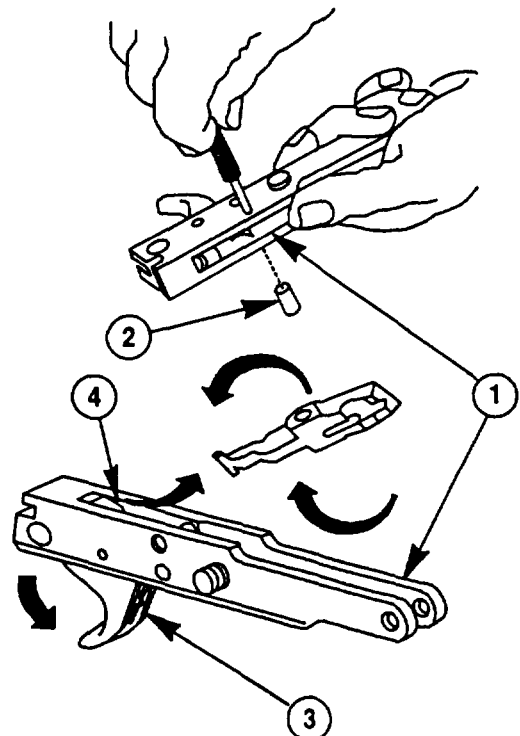
Materials/Parts

As required

DISASSEMBLY

1. Apply slight pressure on Sear (1) and push out Headless Straight Pin (2).

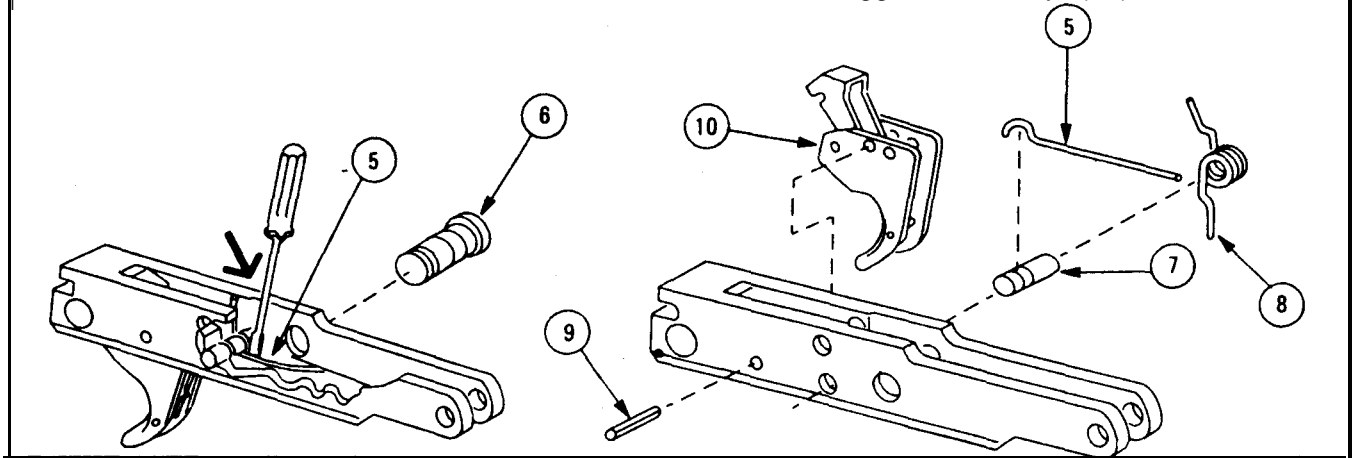
2. Remove Sear (1) by pulling Trigger (3) and give Sear 1/4 turn, freeing it from slot in Tripping Lever (4).



3. Using small, flat-tipped screwdriver depress Retaining Spring (5), remove Safety (6) and Retaining Spring (5).

4. Remove Grooved Pin (7) and Sear Spring (8).

5. Remove Spring Pin (9) and discard. Remove Trigger Assembly (10).



INSPECTION AND REPAIR

1. Visually inspect front edge of Trigger Assembly (1). If chipped, cracked or broken, replace Trigger Assembly (1).

2. Visually inspect Tripping Lever Spring (2) for broken or bent legs. With trigger mechanism assembly completely assembled, functionally inspect trigger for proper function. If the Trigger Assembly (1) is hard to pull, the Tripping Lever (12) may be worn out. If Tripping Lever Spring (2) is damaged or Tripping Lever (12) is worn out, replace Trigger Assembly (1).

3. Visually inspect Safety (3) for burrs. Replace if burrs cannot be removed or is otherwise damaged.

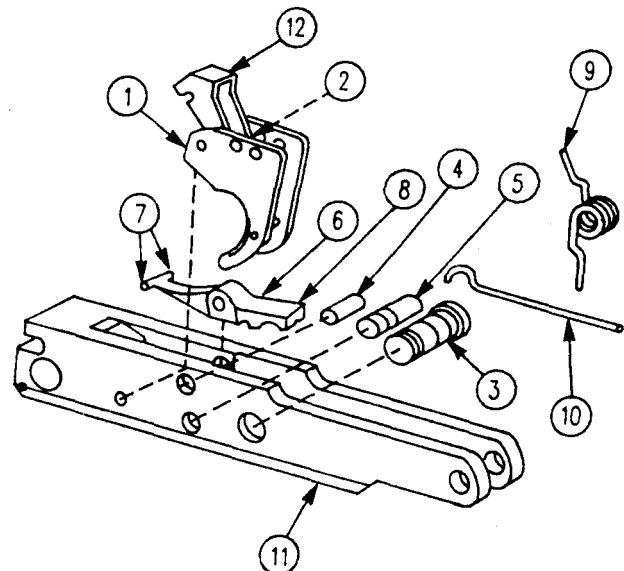
4. Visually inspect Headless Straight Pin (4) and Grooved in (5) for burrs and bends. Replace if bent or if burrs cannot be removed.

5. Visually inspect Sear (6) for cracked or broken Trigger Tabs (7), and Well Defined Edge (8) for chips, burrs or rounding. Replace if broken or damaged.

6. Visually inspect Sear Spring (9) for broken or bent legs. Replace if damaged.

7. Visually inspect Retaining Spring (10), and replace if broken, or bent.

8. Visually inspect Trigger Housing (11) for cracks or burrs and replace if damaged.



3-12. MAINTENANCE OF TRIGGER MECHANISM ASSEMBLY (Cont).

REASSEMBLY

1. Put Trigger Assembly (1) in Trigger Housing (2) aligning holes.

CAUTION

To prevent marring the Trigger Housing (2), use a brass hammer to install Spring Pin (3).

2. Install NEW Spring Pin (3) through Trigger Housing (2) and Trigger Assembly (1), flush both sides with Trigger Housing (2).

3. Orient Sear Spring (4) with both legs forward (toward trigger assembly) and long leg pointing down into Trigger Housing (2).

NOTE

When properly assembled, bottom leg of Sear Spring (4) must NOT be between the trigger housing and spring pin.

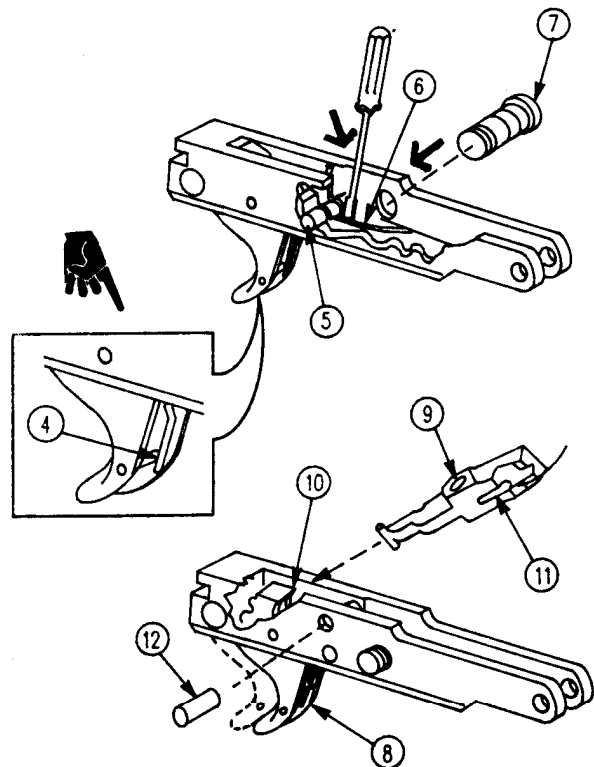
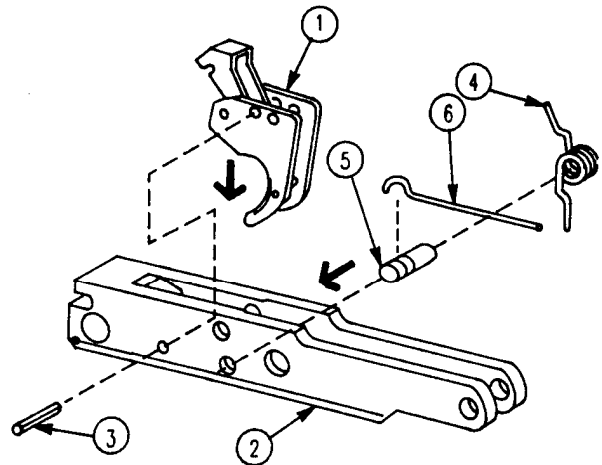
4. Align hole of Sear Spring (4) with hole in Trigger Housing (2) and install Grooved Pin (5) with notch to the left.

5. Install Retaining Spring (6) with hook end down in the notch of the Grooved Pin (5).

6. Using small, flat tip screwdriver compress Retaining Spring (6) install Safety (7) in Trigger Housing (2) with red ring end to the left.

7. Pull Trigger (8) to rear to insert Sear (9); hold Sear (9) sideways and insert into Tripping Lever Slot (10) then give 1/4 turn to hold in place with Spring Slot (11) down.

8. Align holes in Sear (9) and Trigger Housing (2) and push in Headless, Straight Pin (12).



3-13. MAINTENANCE OF BIPOD ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Materials/Parts

As required.

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

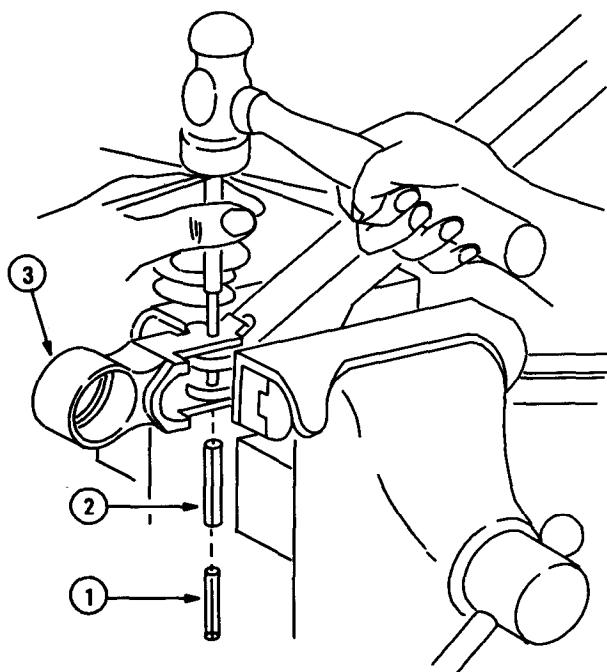
TM 9-1005-201-10
TM 08671A-10/1A.

Equipment Condition

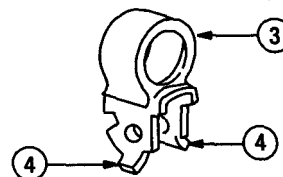
Bipod Assembly removed.

DISASSEMBLY/INSPECTION/REPAIR

1. Place Bipod Assembly in protective jawed vice. Remove Spring Pins (1) and (2) and discard. Separate Yoke (3).

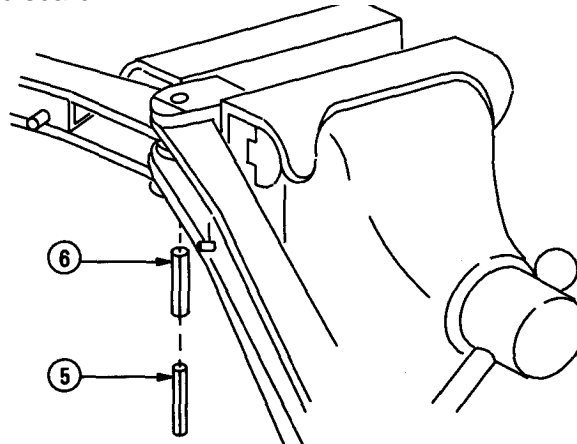


2. Visually inspect Yoke (3) for dents, bends or broken Locking Tabs (4). If damaged, replace Bipod Assembly.



3. Reposition Bipod Assembly in vise.

4. Remove Spring Pins (5) and (6) and discard.



3-13. MAINTENANCE OF BIPOD ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

WARNING

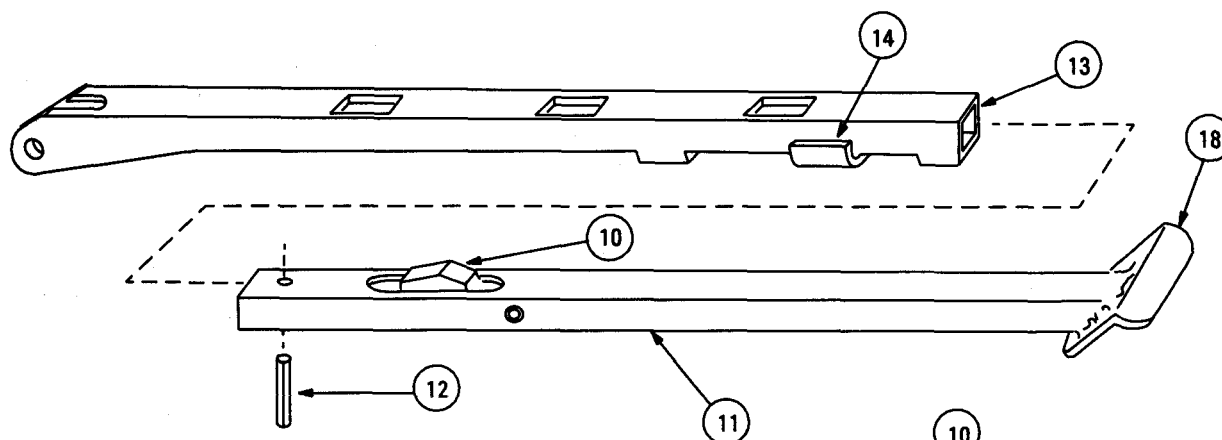
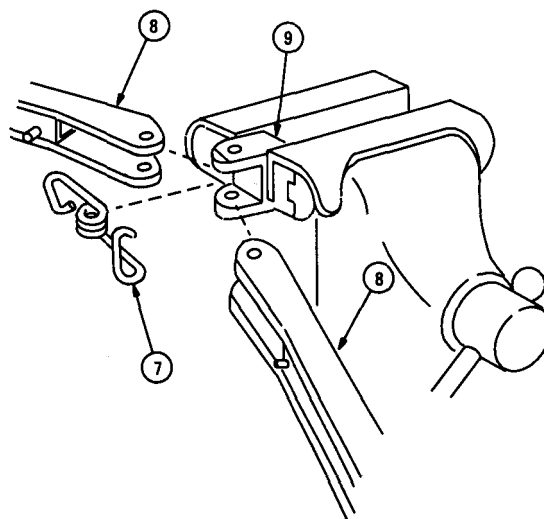
Torsion Spring (7) is under tension and eye injury can occur if spring snaps out.

5. Separate Torsion Spring (7) and Leg Assemblies (8) from Pivot (9).

6. Visually inspect Pivot (9) for bends or cracks and replace if damaged.

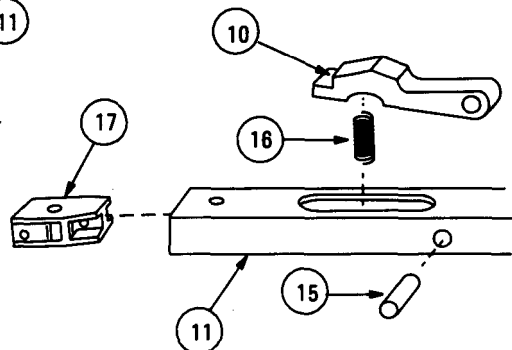
7. Visually inspect Torsion Spring (7) For bent or broken legs and replace if damaged.

8. Depress Latch (10) and extend Inner (Lower) Leg Section (11) to center Spring Pin (12) in one of the two upper rectangular latch holes at Outer (Upper) Leg Section (13). Drive out Spring Pin (12) and discard. Separate Inner (Lower) Leg Section (11) from Outer (Upper) Leg section (13).



9. Visually inspect Outer (Upper) Leg Section (13) for bends and bent, cracked or missing Leg Hooks (14). Replace if damaged.

10. Remove Straight Pin (15) and separate Latch (10), Helical Spring (16) and Plug (17) from Inner (Lower) Leg Section (11).

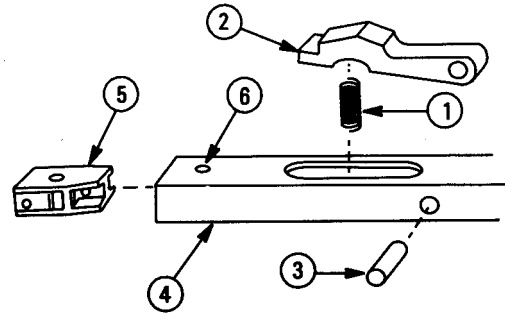


11. Visually inspect Straight Pin (15) for burrs; Helical Spring (16) for breaks or kinks; Latch (10) for burrs; Plug (17) for breaks, and Inner (Lower) Leg Section (11) for bends, broken or bent feet (18). Replace damaged components.

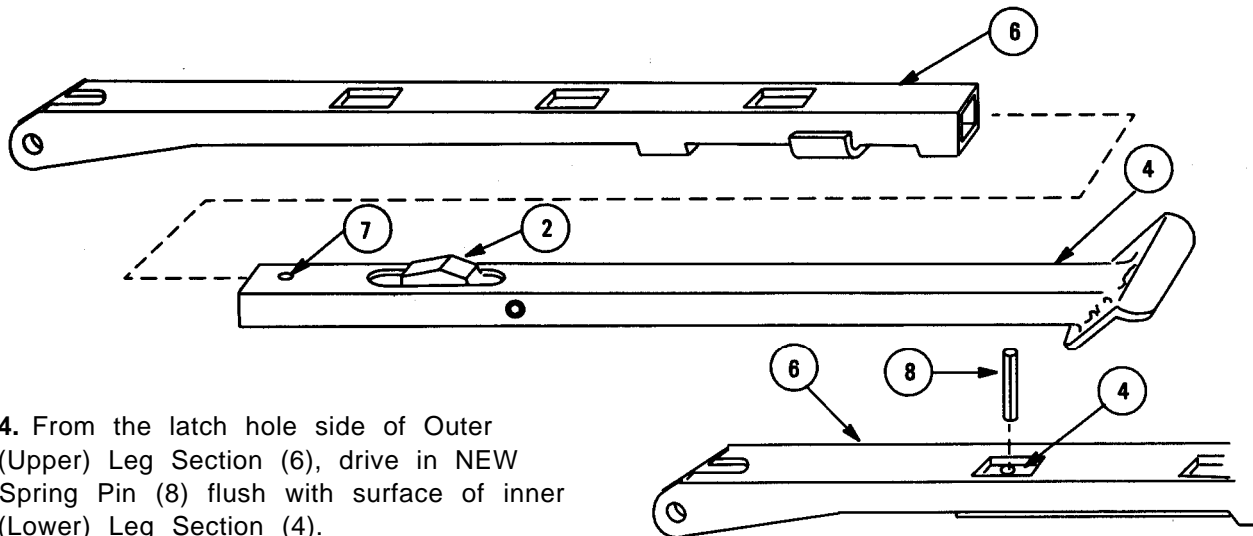
REASSEMBLY

1. Install Spring (1), Latch (2) and Straight Pin (3) into Inner (Lower) Leg Section (4).

2. Position Plug (5) so that the hole in the plug will align with the Spring Pin Hole (6) and insert Plug (5), (tapered end first) into the Inner (Lower) Leg Section (4).

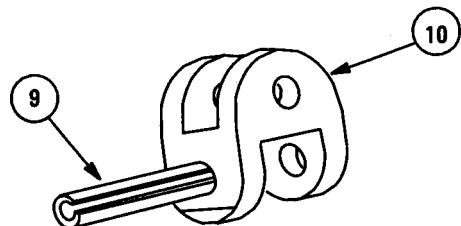


3. Depress Latch (2) and engage Inner (Lower) Leg Section (4) into Outer (Upper) Leg Section (6). Center Spring Pin Hole (7) in one of the two upper rectangular latch holes of the Outer (Upper) Leg Section (6).



4. From the latch hole side of Outer (Upper) Leg Section (6), drive in NEW Spring Pin (8) flush with surface of inner (Lower) Leg Section (4).

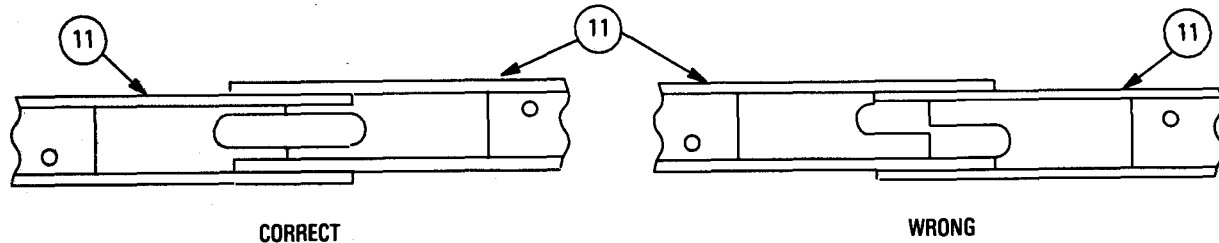
5. Start NEW Spring Pin (9) in Pivot (10).



3-13. MAINTENANCE OF BIPOD ASSEMBLY (Cont).

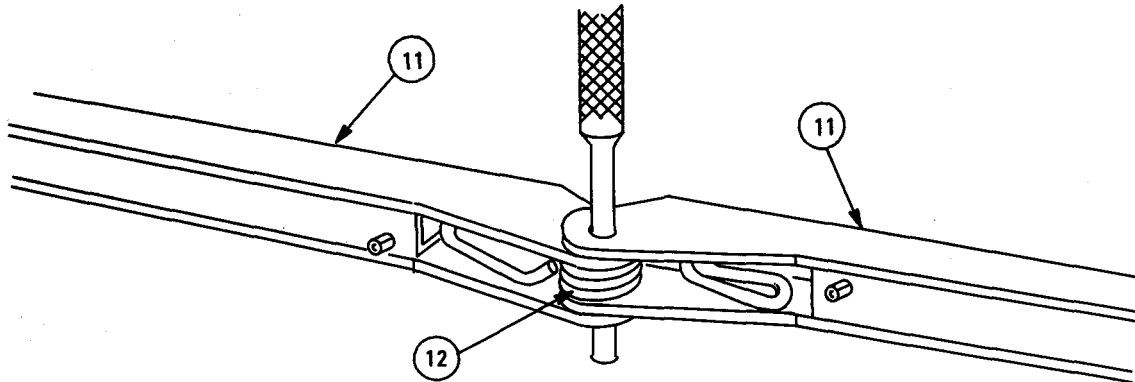
REASSEMBLY (Cont)

6. Place Leg Assemblies (11) on flat surfaces and properly aline slots in leg assembly (as shown).



7. Place torsion Spring (12) between Leg Assemblies (11) and aline holes.

8. Insert a punch into alined holes of Leg Assemblies (11) and Torsion Spring (12).

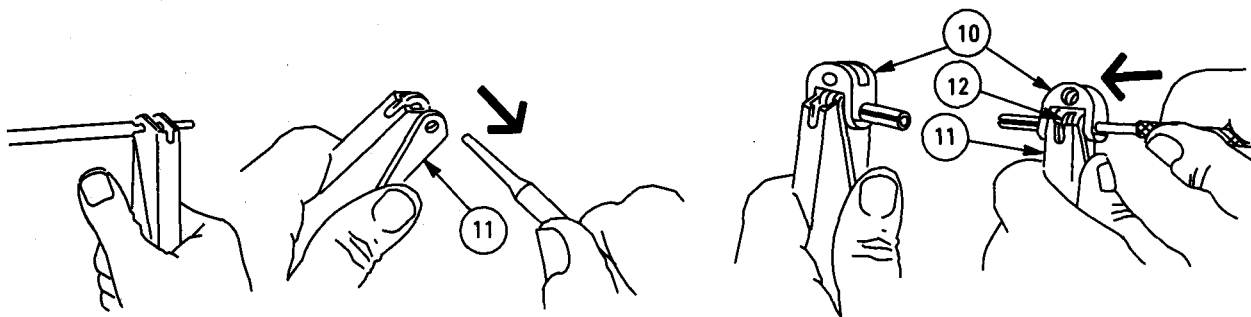


9. Fold Leg Assemblies together and hold firmly.

WARNING

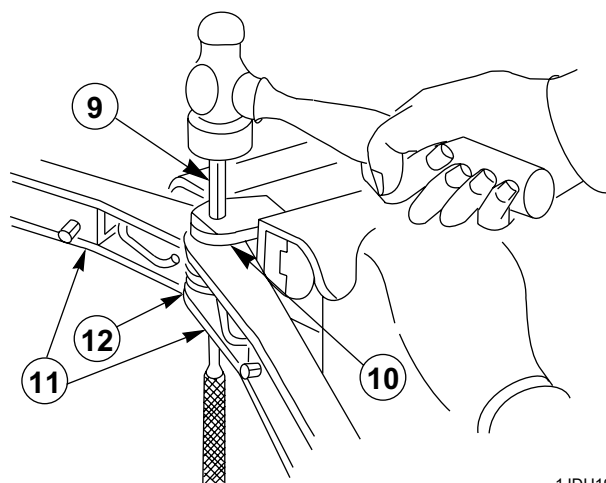
Torsion Spring (12) is under tension and eye injury can occur if spring snaps out.

10. While holding Leg Assemblies (11) firmly together, remove punch. Place Pivot (10) with chamfer toward hooked side of Leg Assemblies (11), aline holes and reinsert punch through Pivot (10), Spring (12) and Leg Assemblies (11).

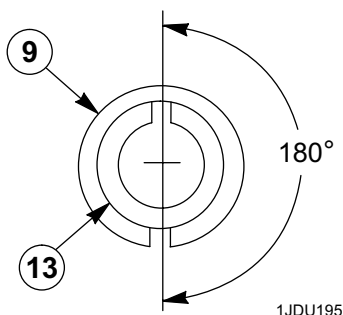


11. Place Pivot (10) in protective jawed vise and drive NEW large Spring Pin (9) into Pivot (10), Torsion Spring (12) and Leg Assemblies (11) flush, pushing punch out the other side.

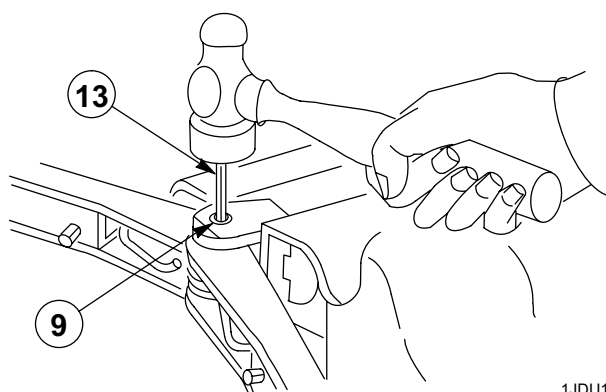
12. After positioning slot of NEW small Spring Pin (13) opposite (180°) slot of Large Spring Pin (9), drive in flush.



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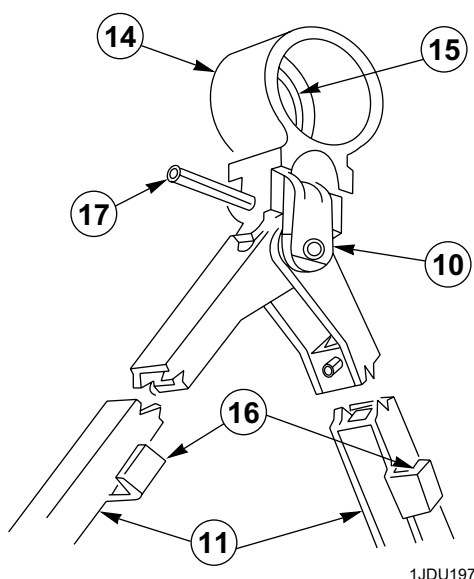
1JDU195



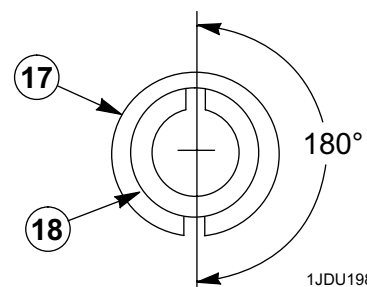
1JDU196

13. Remove Pivot (10) and Leg Assemblies (11) from vise, position Yoke (14) on Pivot (10) with Yoke Lip (15) rearward and Leg Assembly Hooks (16) forward. Drive in NEW, large Spring Pin (17), flush.

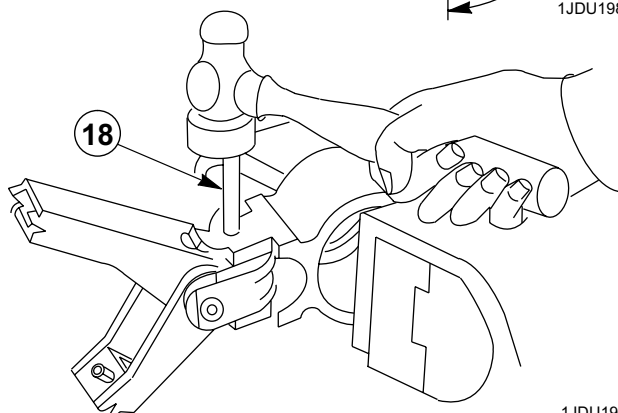
14. After positioning slot of NEW small Spring Pin (18) opposite (180°) slot of Large Spring Pin (17), drive in flush.



1JDU197



1JDU198



1JDU199

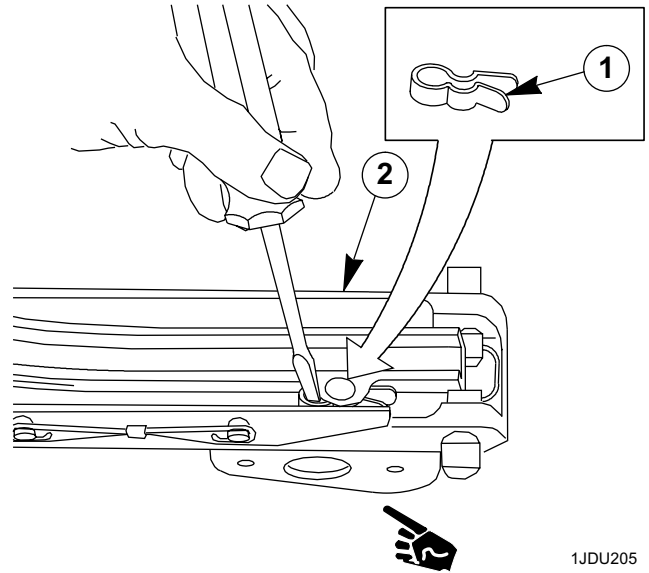
3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY.

This task covers: Disassembly/Inspection/Repair/Reassembly	
INITIAL SETUP	
Tools and Special Tools Shop Set, Small Arms, Field Maintenance SC 4933-95-CL-A11 Tool Kit, Small Arms Repairman USMC TAM No. E2900	References TM 9-1005-201-10 TM 08671A-10/1A TM 9-4933-273-12&P
Personnel Required MOS 45B Small Arms Repairer MOS 2111 Infantry Weapon Repairer	Equipment Condition Cover and Feed Mechanism Assembly removed from Machine Gun Receiver Assembly. (Refer to Para 2-9.1)

DISASSEMBLY/INSPECTION/REPAIR

1. Insert screwdriver into loop of Retaining Clip (1) and pull toward front of Cover and Feed Mechanism Assembly (2) and remove.

2. Visually inspect Retaining Clip (1) for bends, or cracks and replace if damaged.

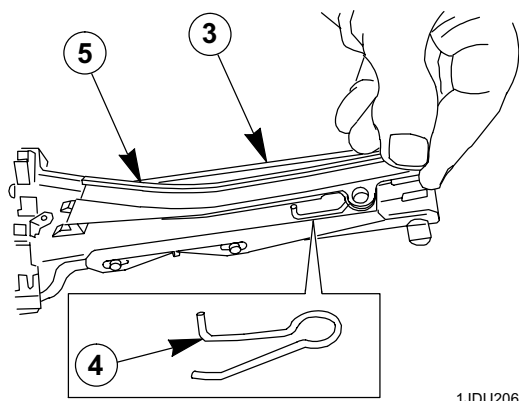


1JDU205

3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

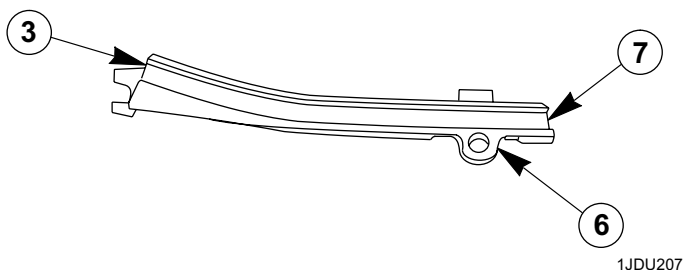
DISASSEMBLY/INSPECTION/REPAIR (Cont)

3. Lift Feed Lever (3) up and out from rear. Separate Spring (4) from Cover Assembly (5).

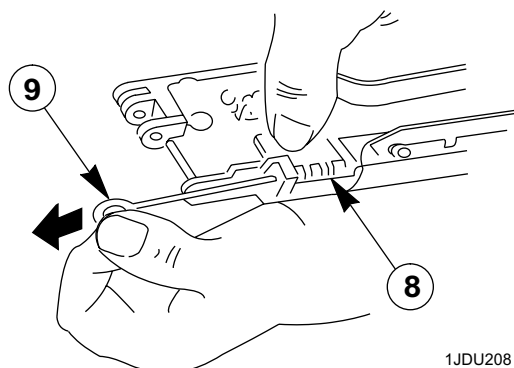


4. Visually inspect Spring (4) for bent or broken legs and replace if damaged.

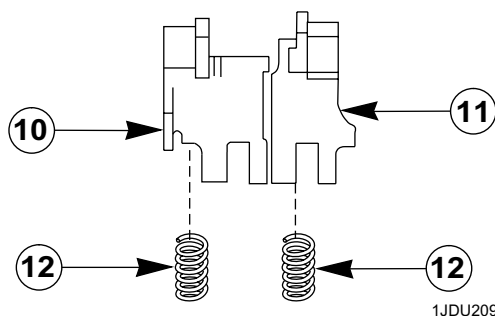
5. Visually inspect Feed Lever (3) for burrs and cracks and replace if damaged. If enlargement or elongation exists in Pivot Hole (6) replace Feed Lever (3). Visually inspect Channel (7) for distortion, burrs or ripples and if damaged, replace Feed Lever (3).



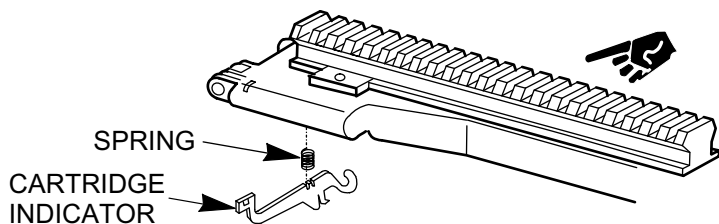
6. Apply slight pressure to Cartridge Retaining Pawls (8) and remove Hooked Retaining Pin (9).



7. Visually inspect Pin (9) for bends or breaks. Replace if damaged.



8. Separate Front (10) and Rear (11) Cartridge Retaining Pawls and remove two Springs (12).

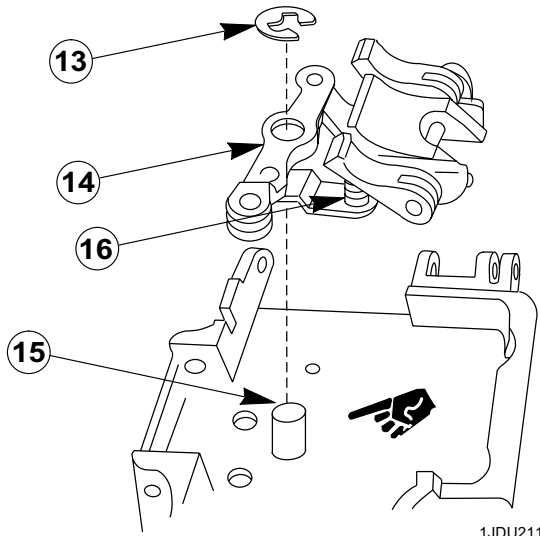


NOTE

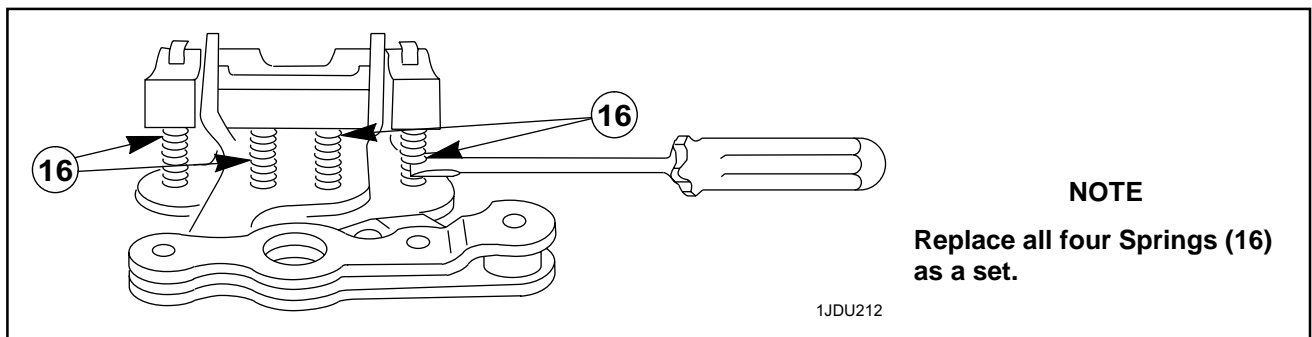
The cartridge indicator and spring are no longer required. If they are found assembled to the cover they must be removed and discarded.

9. Visually inspect Front (10) and Rear (11) Cartridge Retaining Pawls for bends, breaks or cracks and replace if damaged. Visually inspect Springs (12) for broken or kinked coils and replace if damaged. If either Spring (12) is broken, kinked or missing, replace both Springs (12).

10. Using small screwdriver, remove Retaining Ring (13) and discard. Separate Feed Pawl Assembly (14) from Feed Pawl Pivot Post (15).



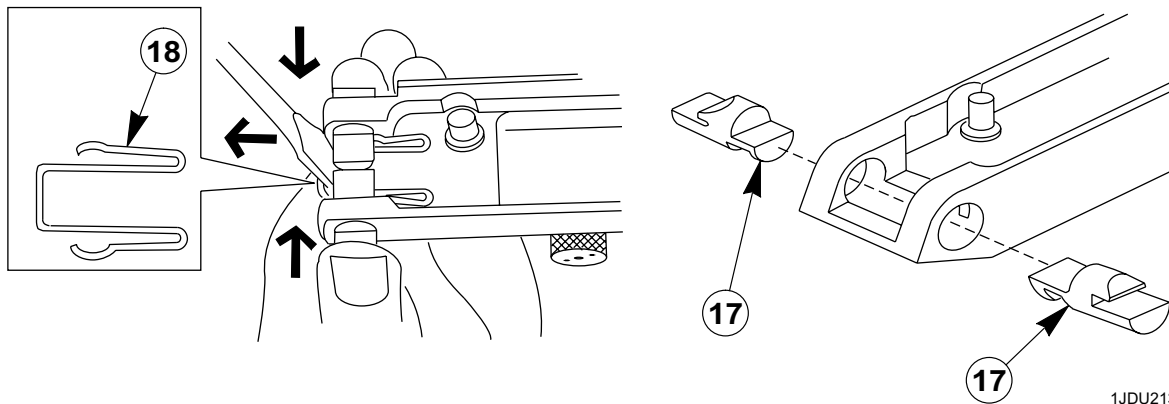
11. Visually inspect Feed Pawl Assembly (14) for distortions, cracks, burrs, or excessive wear, and replace if damaged. Visually inspect Springs (16) for breaks, kinks, or lost tension. If any Spring (16) is damaged, disassemble by holding onto Feed Pawl Assembly (14), insert flat tip screwdriver between first and second coil of Spring (16) just above the feed pawl assembly base and apply slight pressure upward to remove Spring (16). Remove the other three Springs (16) in the same manner. If any Spring (16) is weak, kinked, broken or missing, replace all four Springs (16).



12. Compress Cover Latches (17) and using flat tip screwdriver, pry out Retaining Clip (18). Remove two Cover Latches (17).

WARNING

Retaining Clip (18) is under spring tension. Wear safety glasses/goggles to prevent potential eye injury.

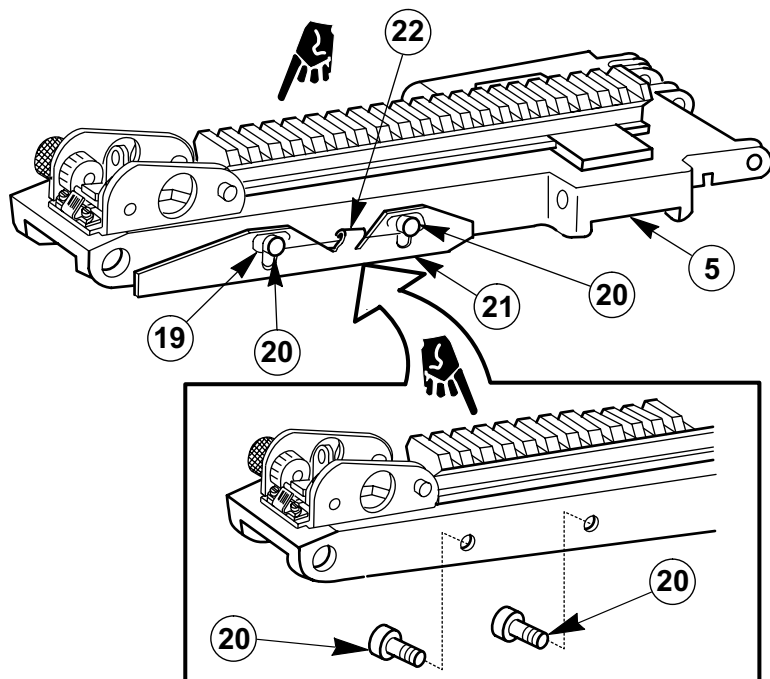


13. Visually inspect Retaining Clip (18) for bends or breaks. Replace if damaged. Visually inspect Cover Latches (17) for burrs or bends. Replace if damaged.

3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

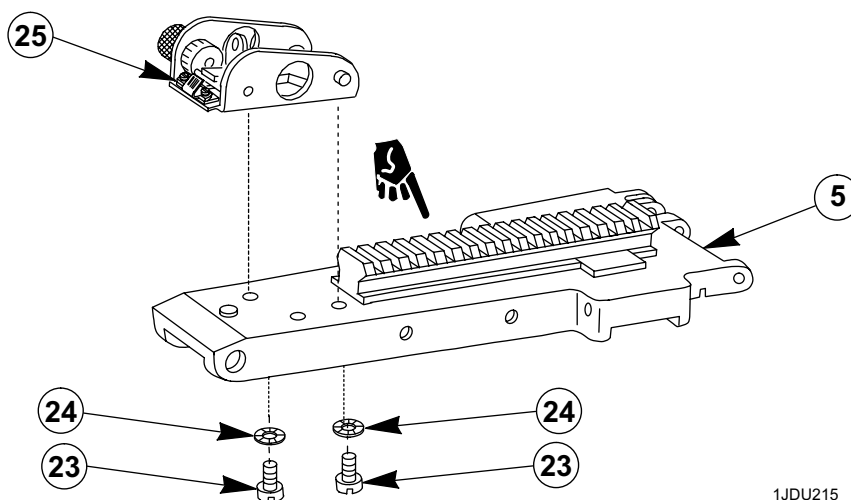
DISASSEMBLY/INSPECTION/REPAIR (Cont)

14. Pry Retaining Spring (19) over two Retaining Pins (20). Remove two Retaining Pins (20), Retaining Spring (19) and Cocking Channel Cover (21) from Cover Assembly (5) and separate Retaining Spring (19) from Cocking Channel Cover (21).



1JDU214

15. Visually inspect two Retaining Pins (20) for burrs, and replace if damaged. Visually inspect Cocking Channel Cover (21) for bends or broken Clip (22) and replace if broken or damaged. Visually inspect Retaining Spring (19) for bends or broken ends and replace if damaged.



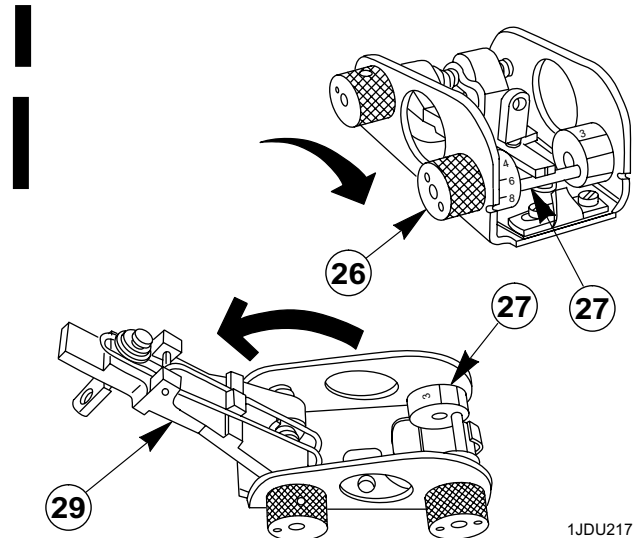
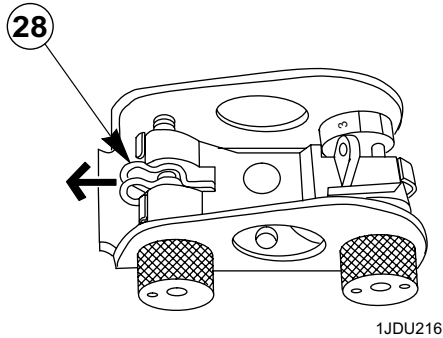
1JDU215

16. Remove two Screws (23). Remove two Lock Washers (24) and discard. Separate Rear Sight Assembly (25) from Cover Assembly (5).

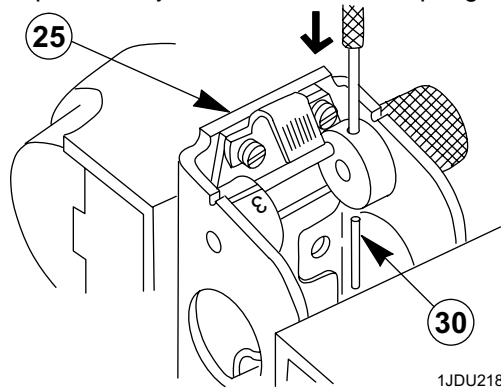
17. Visually inspect two Screws (23) for burred head and damaged threads. Replace if damaged.

18. Rotate Elevation Knob Assembly (26) so that cross bar of Elevator Assembly (27) is rearward.

19. Push Lock Spring (28) to the front and lift Sight Leaf Assembly (29) up and away from Elevator Assembly (27).



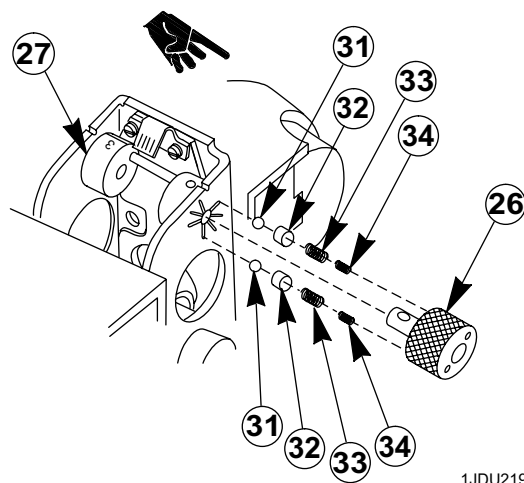
20. Place Rear Sight Assembly (25) in protective jawed vise. Remove Spring Pin (30) and discard.



21. Separate Elevation Knob Assembly (26) from Elevator Assembly (27). Separate and discard two Ball Detents (31), two Plungers (32), two Detent Springs (33) and two Detent Springs (34) from Elevation Knob Assembly (26).

NOTE

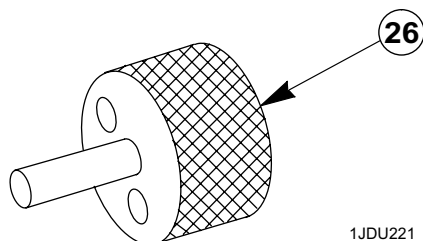
Windage and/or elevation knobs on some rear Sight Assemblies may have a cylindrical detent rather than a ball detent. Discard cylindrical detents and replace with NEW ball detents.



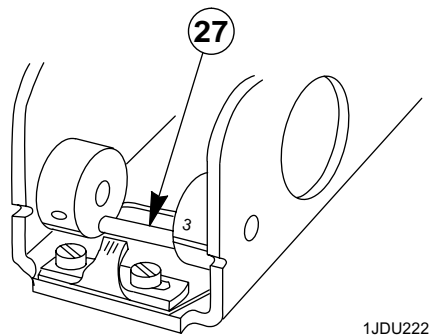
3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

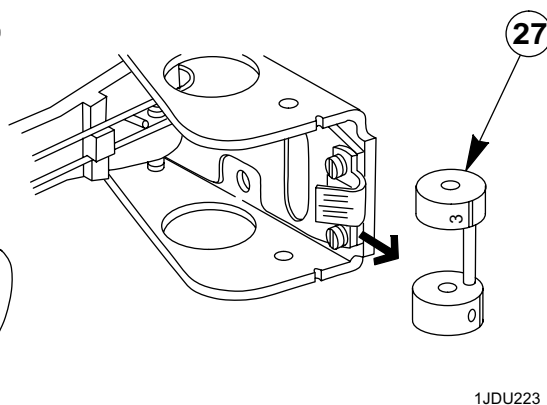
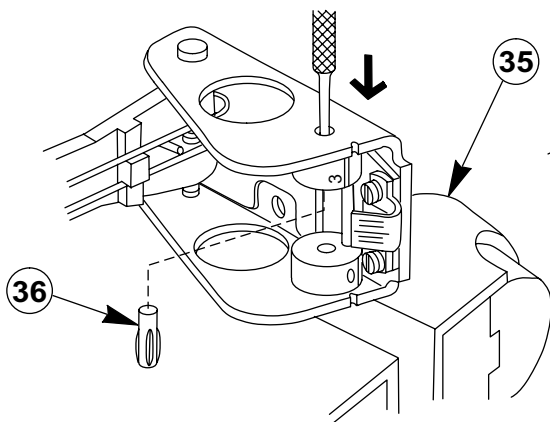
22. Visually inspect Elevation Knob Assembly (26) for bent or broken shaft and replace if damaged.



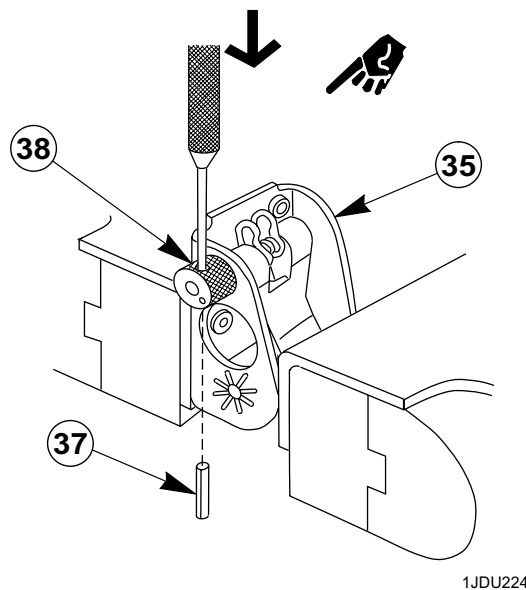
23. Visually inspect Elevator Assembly (27) for bent or broken cross bar. If not damaged, do not remove.



24. If Elevator Assembly (27) is damaged, place Rear Sight Base (35) on vise with jaws slightly apart. Remove Shaft (36) and discard. Separate Elevator Assembly (27) and replace.



25. Place Rear Sight Base (35) in protective jawed vise. Remove and discard Spring Pin (37) from Windage Knob (38).



WARNING

Ball Detent (31), Plunger (32), Detent Spring (33) along with Detent Spring (34) are under spring tension. Wear safety glasses/goggles to prevent potential eye injury.

26. Remove Windage Knob (38) from Machine Screw Shaft (39). Separate and discard the Ball Detent (31), Plunger (32), Detent Spring (33) and Detent Spring (34) from Windage Knob (38).

27. Visually inspect Windage Knob (38) for burrs. Replace if damaged.

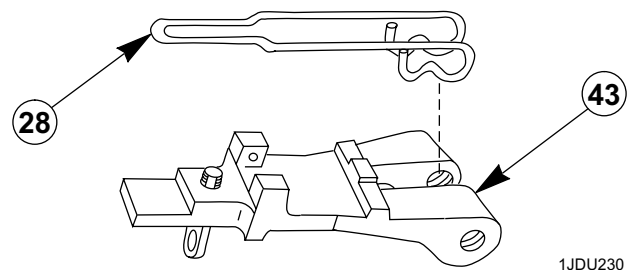
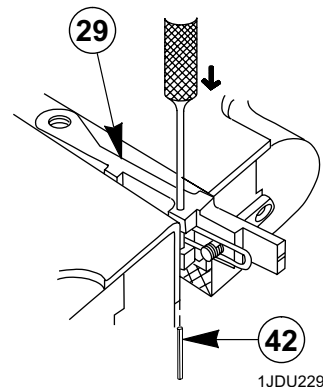
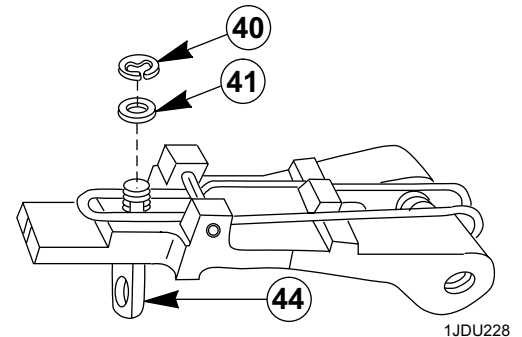
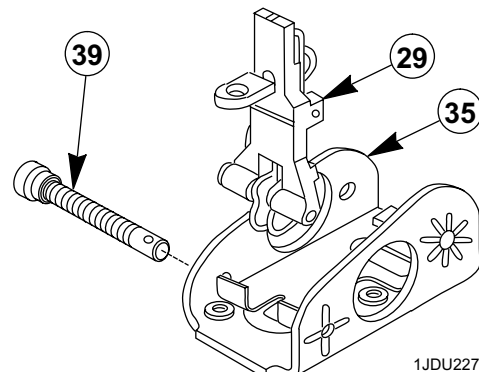
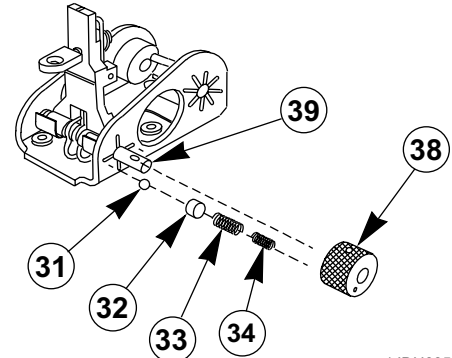
28. Unscrew Machine Screw (39) and separate Sight Leaf Assembly (29) from Rear Sight Body (35).

29. Visually inspect Machine Screw (39) for distorted threads or bent shaft. Replace if damaged.

30. Remove Retaining Clip (40) and discard. Separate Washer (41) from Peep Sight (44) and visually inspect for bends. Replace if damaged.

31. Place Sight Leaf Assembly (29) in vise with protective jaws. Remove Spring Pin (42) and discard.

32. Separate Lock Spring (28) from Sight Leaf (43). Visually inspect for bends or broken ends. Replace if damaged.



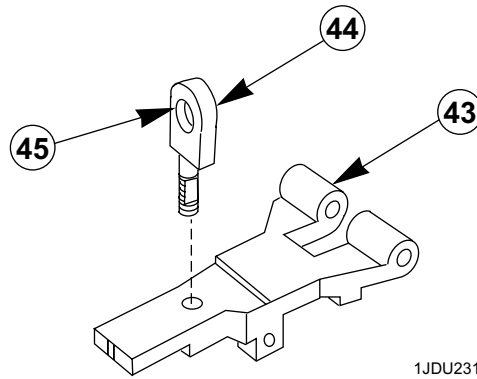
3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

NOTE

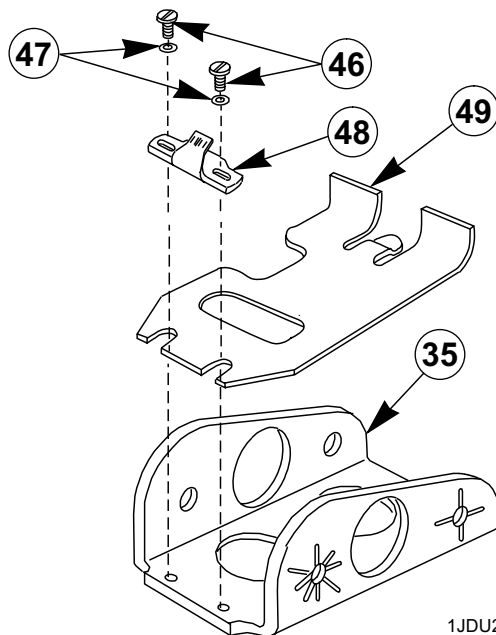
Prior to disassembly of Peep Sight (44), count the number of threads exposed on the top of Sight Leaf (43).

33. Unscrew Peep Sight (44) from Sight Leaf (43) and visually inspect for bent shaft, damaged threads, burred thread flats and burrs on Peep Hole (45). Replace Peep Sight (44) if damaged. Visually inspect Sight Leaf (43) for bends, cracks, or broken portions, and replace the entire sight leaf assembly if damaged.



34. Remove two Screws (46) and two Lock Washers (47). Discard the two Lock Washers (47). Visually inspect Screws (46) for distorted threads and replace if damaged.

35. Separate Windage Scale (48) from Rear Sight Body (35) and visually inspect Windage Scale (48) for bends, breaks, or missing white paint on scale. If damaged, replace with new style scale.



36. Separate Slack Plate (49) (New Style Rear Sight Assembly) from Rear Sight Body (35). Visually inspect Slack Plate (49) (New Style Rear Sight Assembly) for bends, breaks or cracks and replace if damaged.

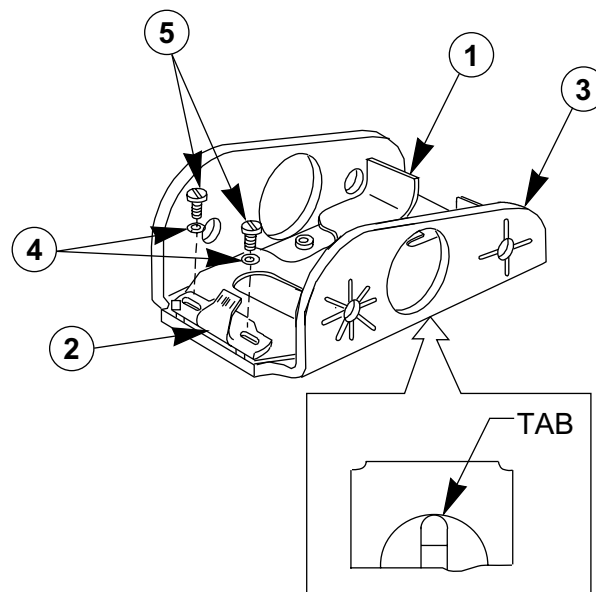
37. Visually inspect Rear Sight Base (35) for bends, cracks or distorted threads and if damaged, replace the entire rear sight assembly.

REASSEMBLY

1. Center Slack Plate (1) and Windage Scale (2) on Rear Sight Base (3) and install two NEW Washers (4) and two Screws (5) into Rear Sight Base (3), and tighten securely.

NOTE

Assure tab of Slack Plate (1) is positioned in hole of Rear Sight Base (3) as illustrated. Tab must not be positioned under the Rear Sight Base (3) since this can cause the rear sight assembly not to fully seat on top of the cover assembly which will not allow the rear sight assembly to be securely fastened with screws and washers.

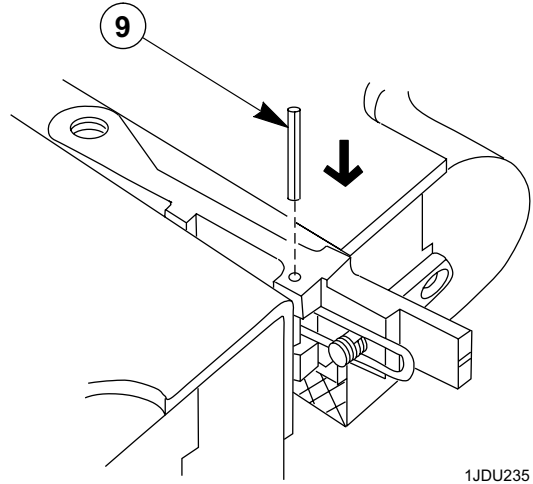
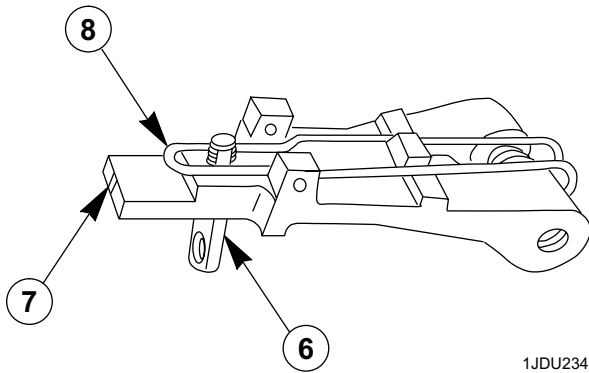


1JDU233

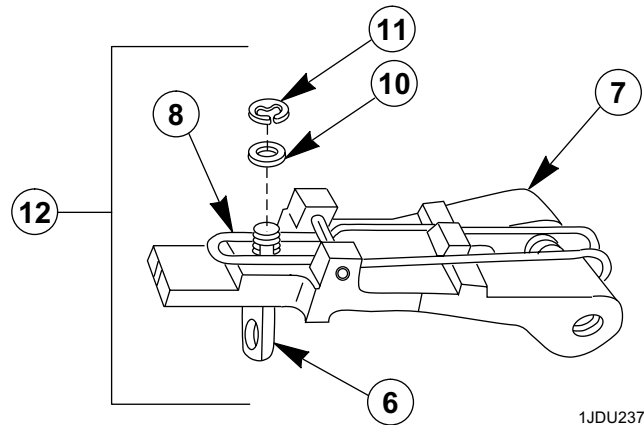
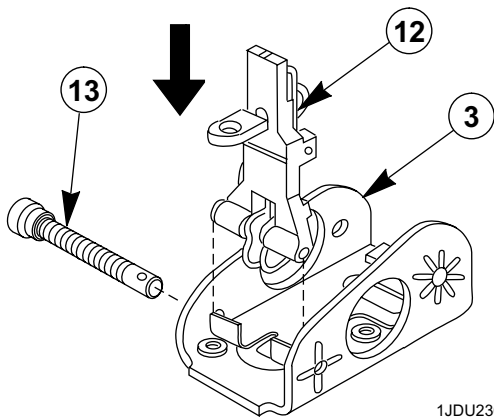
3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

REASSEMBLY (CONT)

2. Screw Peep Sight (6) into Sight Leaf (7) until threads on Peep Sight (6) are even with the number of threads exposed before removal. Install Lock Spring (8) onto Sight Leaf (7) and Peep Sight (6). With Lock Spring (8) installed, position in vise with protective jaws and drive in NEW Spring Pin (9) flush.

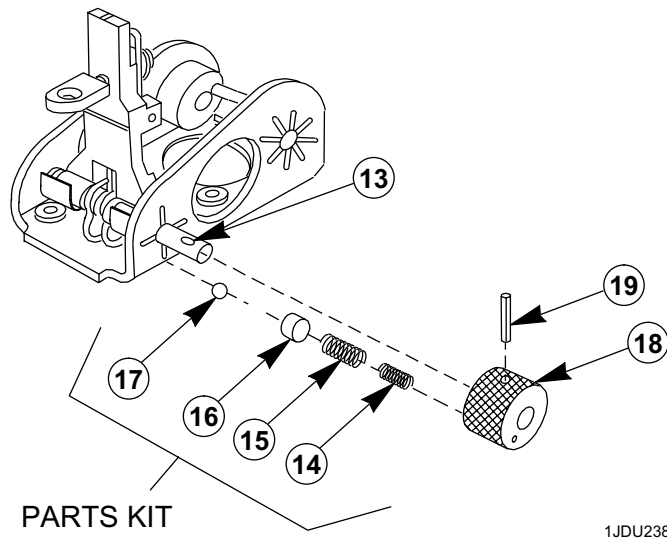


3. Install Washer (10) and NEW Retaining Clip (11) on end of Peep Sight (6).



4. Position Sight Leaf Assembly (12) into Rear Sight Base (3). Install Machine Screw (13) through right side front hole and screw through both Sight Leaf Assembly (12) and left side front hole of Rear Sight Base (3).

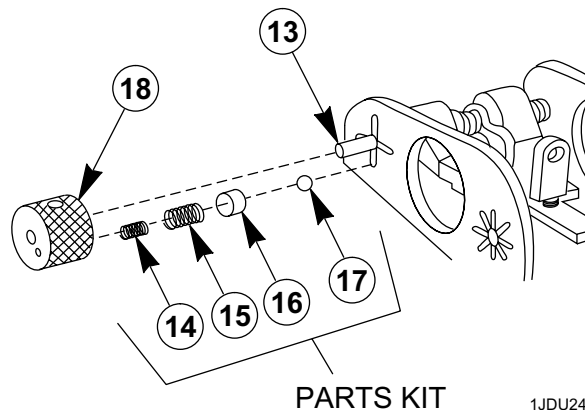
5. If Machine Screw (13) is not being replaced, install NEW Detent Spring (14), NEW Detent Spring (15), NEW Plunger (16) and NEW Ball Detent (17) (Parts Kit) into Windage Knob (18) and install Windage Knob (18) onto Machine Screw (13). Drive in NEW Spring Pin (19) flush.



NOTE

If NEW Machine Screw (13) is being installed, it must be drilled. An alternate method of reassembly can be utilized by performing reassembly steps 7 and 8 prior to installing parts kit.

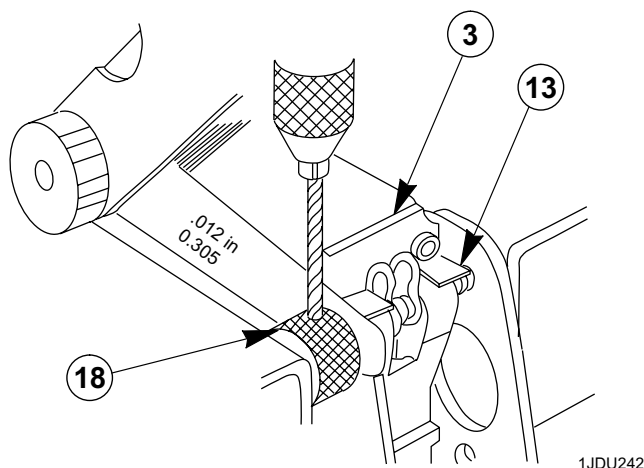
6. If Machine Screw (13) is being replaced, install NEW Detent Spring (14), NEW Detent Spring (15), NEW Plunger (16) and NEW Ball Detent (17) (Parts Kit) into Windage Knob (18).



3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

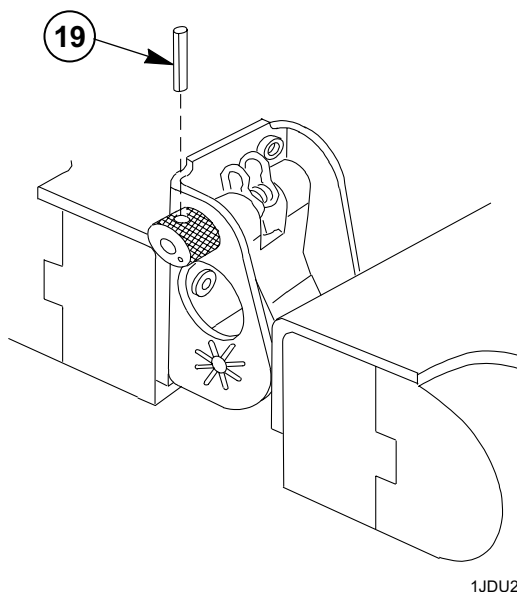
REASSEMBLY (Cont)

7. Position Windage Knob (18) onto Machine Screw (13) and insert .012 in./0.305mm blade of feeler gage between Windage Knob (18) and Rear Sight Base (3). With blade installed and hole of knob in vertical position, clamp in protective jawed vise.

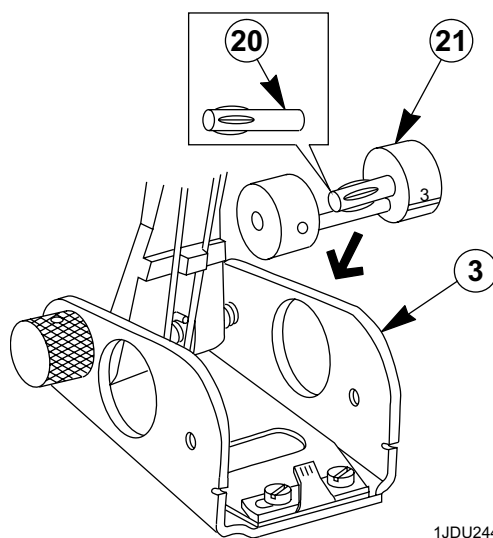


8. Using the hole in Windage Knob (18) as a guide, drill a hole through the NEW Machine Screw (13) using a No. 53 (.0595) drill bit. Remove feeler gage.

9. Position Rear Sight Base (3) in protective jawed vise. Aline holes in Windage Knob (18) and Machine Screw (13). Insert NEW Spring Pin (19) and drive in flush.



10. Start smooth end of NEW Shaft (20) into hole inside of Elevator Assembly (21) (the side marked with the numeral 3).

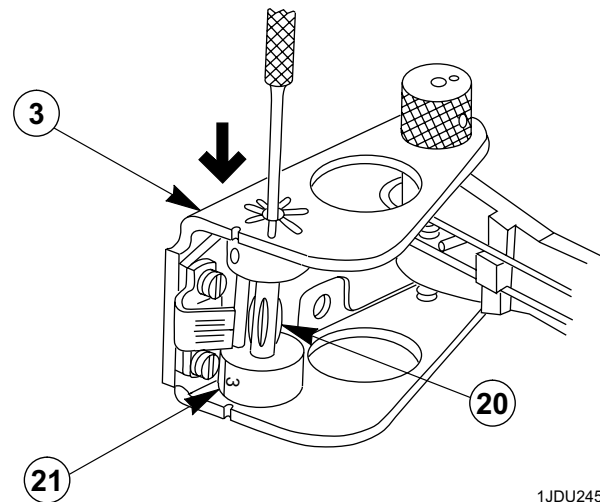


NOTE

Grooved end of Shaft (20) is to be embedded into Elevator Assembly (21) and smooth end is to rotate in right, rear hole of Rear Sight Base (3).

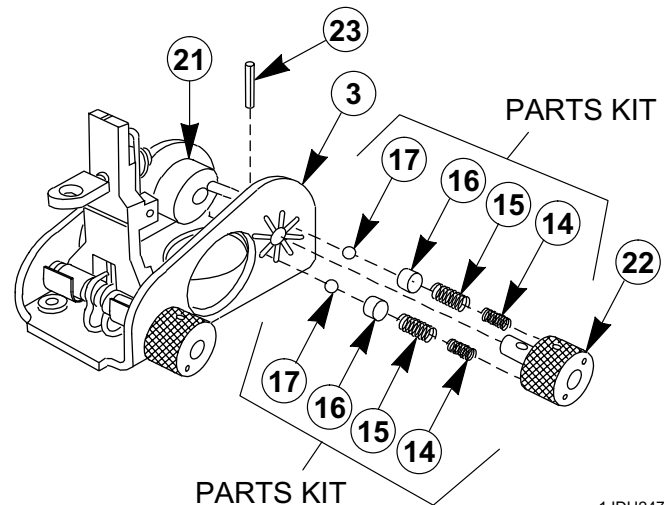
11. Position Rear Sight Base (3) on flat surface. Position Elevator Assembly (21) into Rear Sight Base (3) (the side marked with the numeral 3 toward the right rear hole). Drive in Shaft (20) flush with outside surface of Rear Sight Base (3).

NOTE
If NEW Elevation Knob Assembly (22) is being installed, it must be drilled.



1JDU245

12. If Elevation Knob Assembly (22) **IS NOT** being replaced, install two NEW Detent Springs (14), two NEW Detent Springs (15), two NEW Plungers (16) and two NEW Ball Detents (17) (Parts Kit) into Elevator Knob Assembly (22) and install through left rear hole of Rear Sight Base (3) and into Elevator Assembly (21). Aline holes in elevation knob assembly and elevator assembly, and drive in NEW Spring Pin (23) flush. Proceed to step 18.



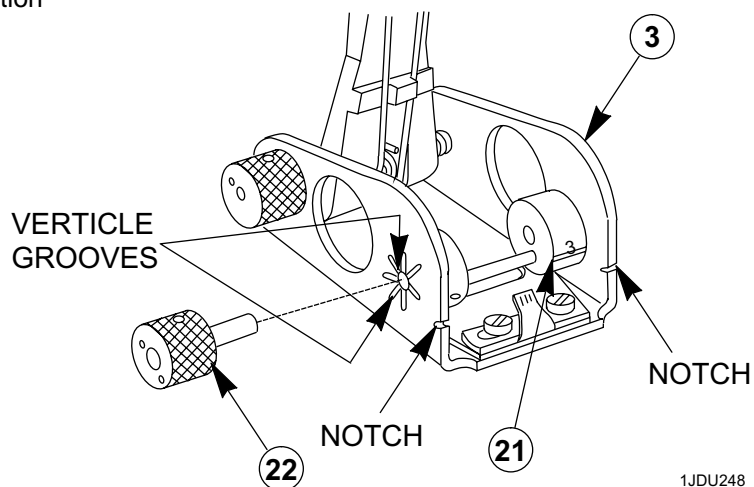
1JDU247

13. If Elevation Knob Assembly (22) **IS** being replaced, install two NEW Detent Springs (14), two NEW Detent Springs (15), two NEW Plungers (16) and two NEW Ball Detents (17) (Parts Kit) into Elevator Knob Assembly (22). Insert shaft of Elevator Knob Assembly (22) through left rear hole of Rear Sight Base (3) and into Elevator Assembly (21).

3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

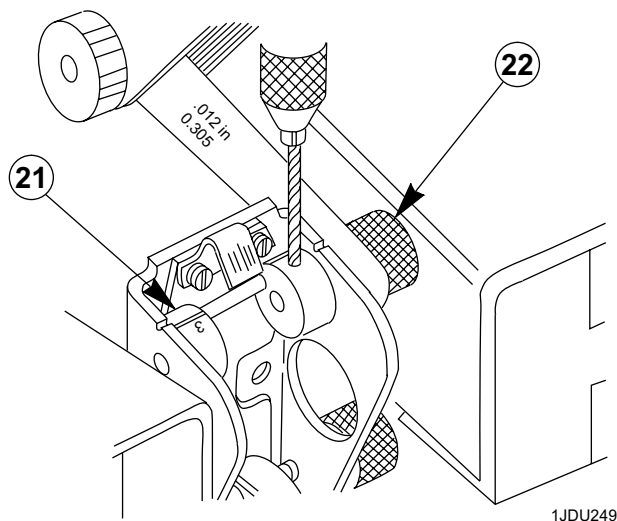
REASSEMBLY (Cont)

14. With the numeral 3 of the Elevator Assembly (21) aligned with the notch on the vertical leg of Rear Sight Base (3) and the Ball Detent holes of the elevation Knob Assembly (22) positioned into the vertical grooves of the Rear Sight Base (3), insert .012 in./0.305mm blade of feeler gage between Elevation Knob Assembly (21) and Rear Sight Base (3).

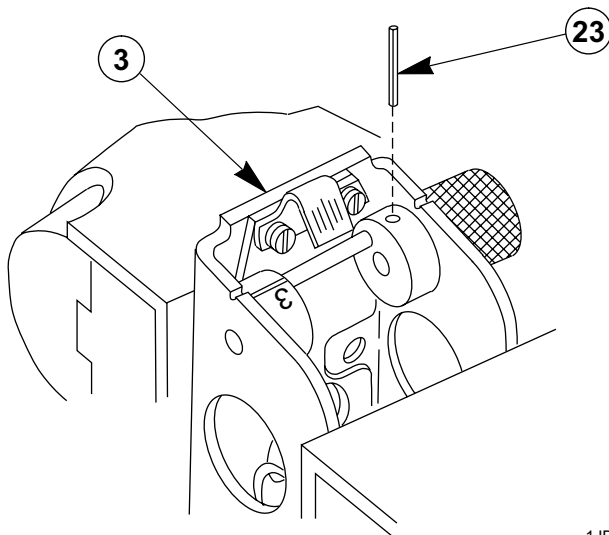


15. With blade of feeler gage installed and hole in Elevator Assembly (21) in vertical position, clamp in protective jawed vise.

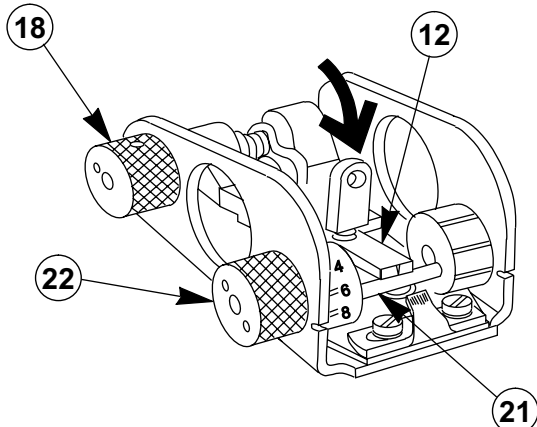
16. Using hole in Elevator Assembly (21) as a guide, drill a hole through the shaft of the Elevation Knob Assembly (22) using a No. 53 drill bit. Remove feeler gage from Rear Sight Base (3).



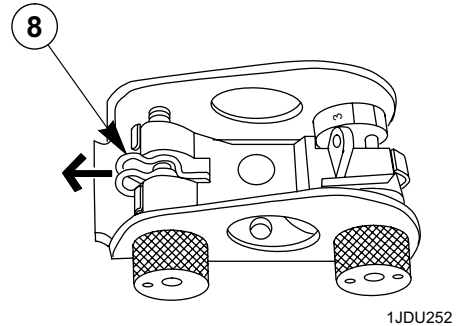
17. Insert NEW Spring Pin (23) and drive in flush.



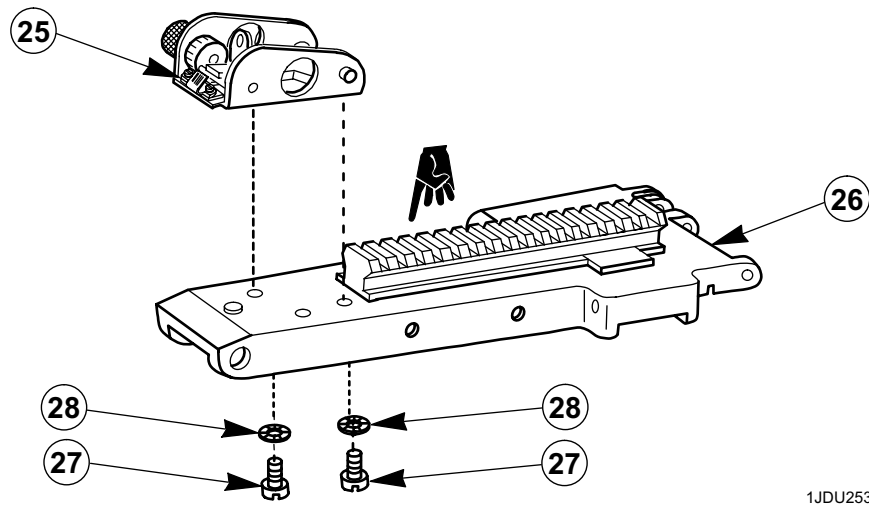
18. Rotate Elevation Knob Assembly (22), so that crossbar of Elevator Assembly (21) is rearward. Center Sight Leaf Assembly (12) by turning Windage Knob (18).



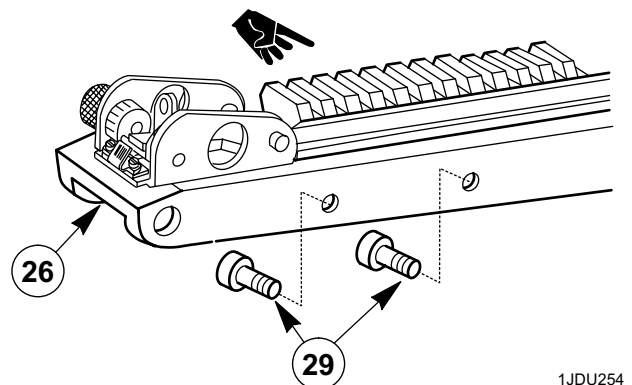
19. Rotate Sight Leaf Assembly (12) down on Elevator Assembly (21) and push Lock Spring (8) to the rear.



20. Position Rear Sight Assembly (25) onto Cover (26) with peep sight to the rear. Install two Screws (27) with two NEW Lock Washers (28) through bottom of Cover (26) and tighten securely.



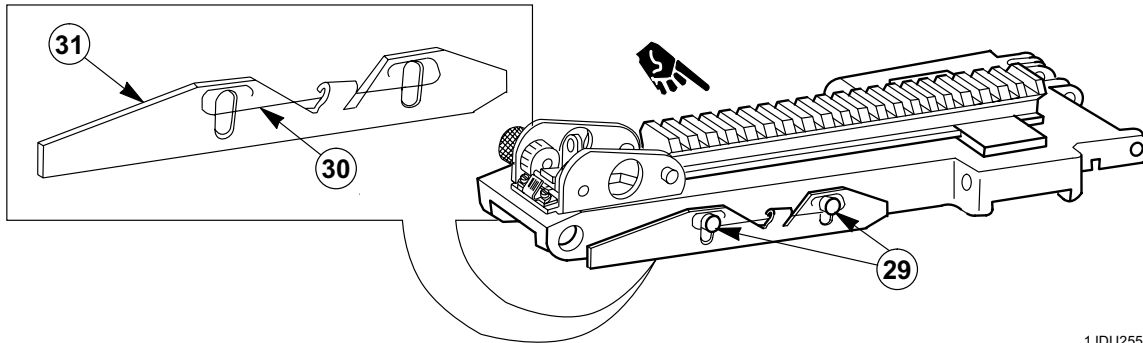
21. Install two Retaining Pins (29) from inside of Cover (26).



3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

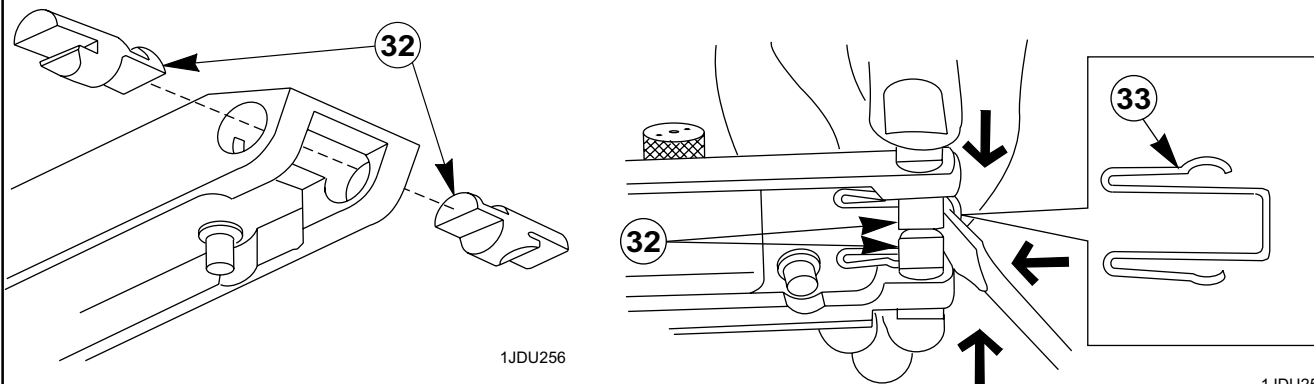
REASSEMBLY (Cont)

22. Attach Retaining Spring (30) to Cocking Channel Cover (31) and secure to Retaining Pins (29).



1JDU255

23. Install Cover Latches (32) with finger grip ends out and flats down. Center Cover Latches (32) and install Retaining Clip (33).



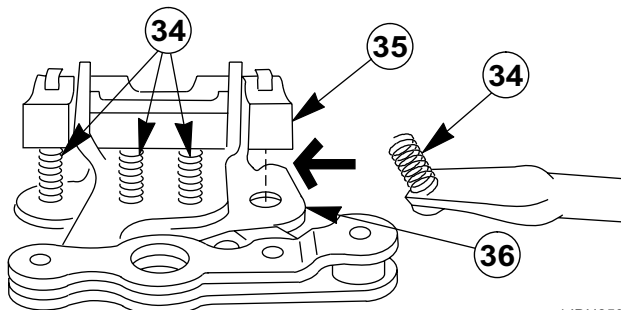
1JDU256

1JDU257

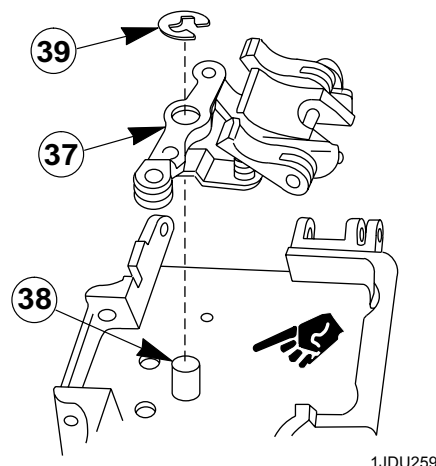
24. Insert Spring (34) into recessed hole in underside of Feed Pawl (35). Insert tip of screwdriver between the first and second coil of Spring (34) just above Feed Pawl Assembly Base (36) and apply slight pressure upward to install Spring (34) into recesses of Feed Pawl Assembly Base (36). Install the other three Springs (34) in the same manner.

25. Place Feed Pawl Assembly (37) on Feed Pawl Pivot Post (38), and secure by inserting NEW Retaining Ring (39) into groove of Feed Pawl Pivot Post (38).

NOTE
Replace all four springs (34) as a set.

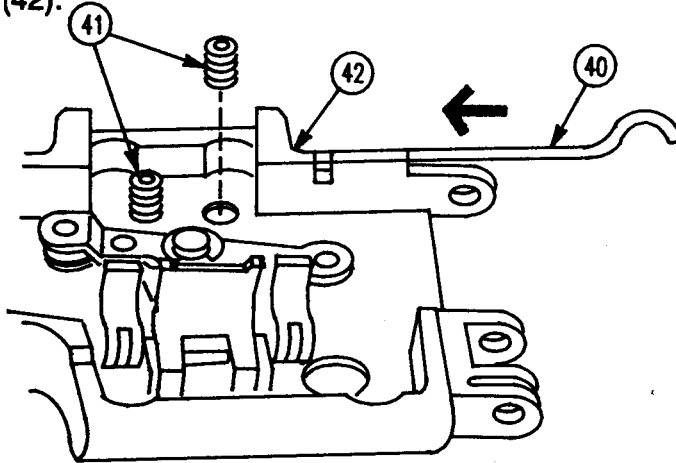


1JDU258

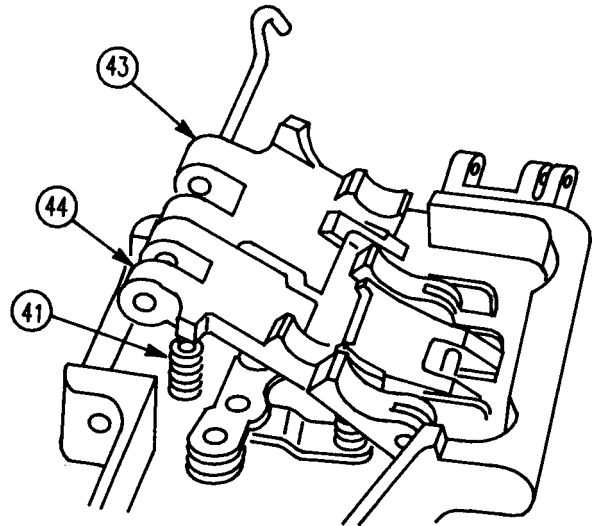


1JDU259

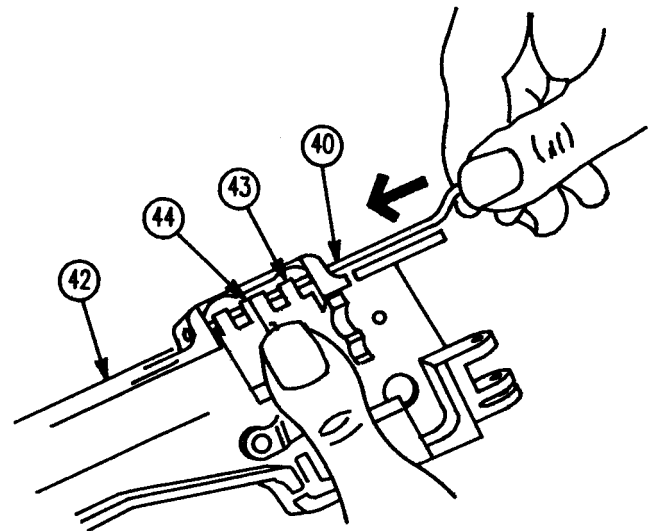
26. Start Hooked Retaining Pin (40) into cover housing hole. Place two Springs (41) into recesses in Cover and Feed Mechanism Assembly (42).



27. Place together Front (43) and Rear (44) Cartridge Retaining Pawls and position on Springs (41).



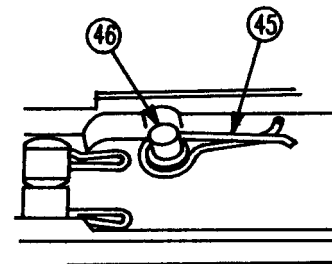
28. Compress Front (43) and Rear (44) Cartridge Retaining Pawls and Springs (not shown) to align holes in Cover and Feed Mechanism Assembly (42). Push in Hooked Retaining Pin (40) through all aligned holes.



29. Lift straight leg over hooked leg of Spring (45). Install loop of Spring (45) over the base of Feed Lever Pivot (46) with legs of Spring (45) pointing forward and down. It may be necessary to use a screwdriver to force loop over base of Feed Lever Pivot (46).

NOTE

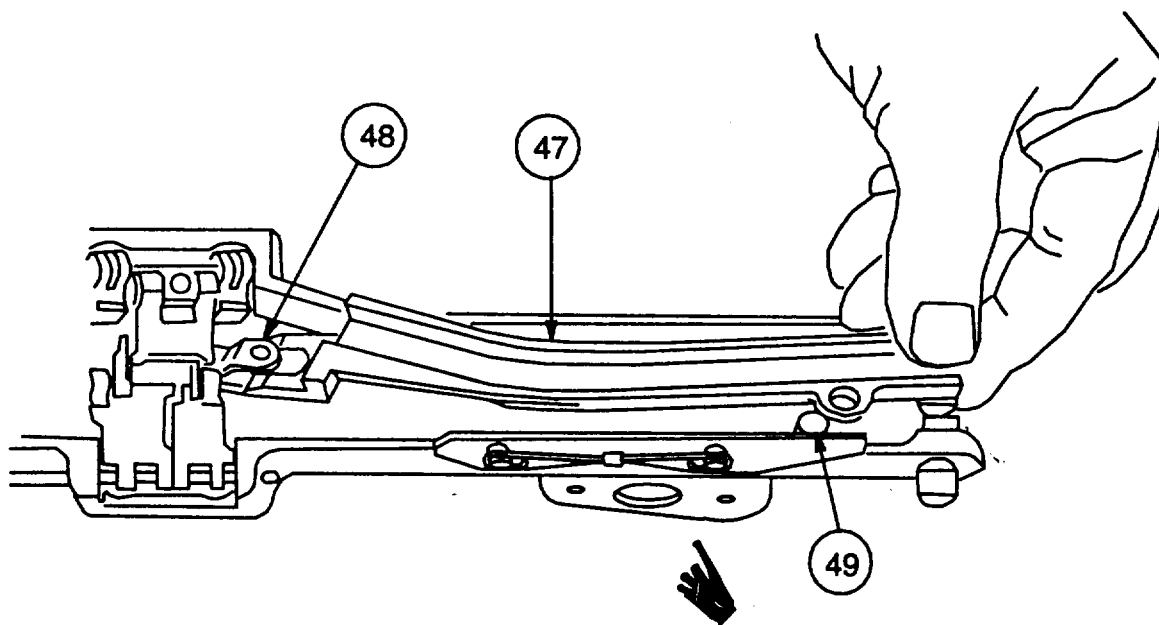
Illustration shows cover assembly bottom-side up.



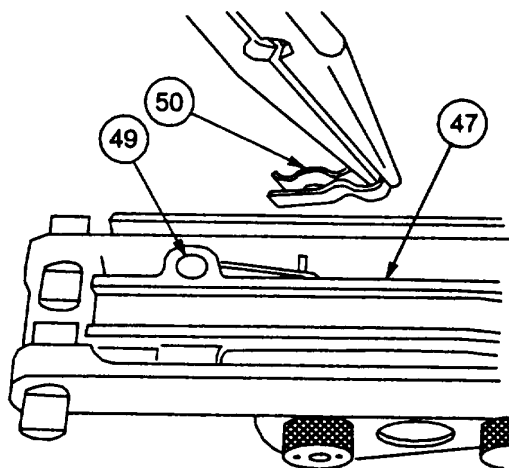
3-14. MAINTENANCE OF COVER AND FEED MECHANISM ASSEMBLY (Cont).

REASSEMBLY (CONT)

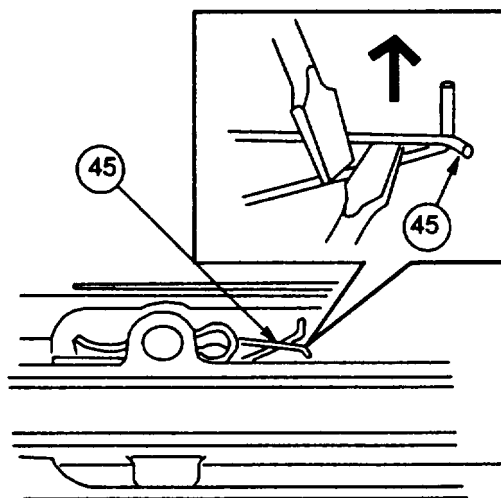
30. Engage Feed Lever (47) on Roller (48). Place on Feed Lever Pivot (49) and drop in place. Be sure Feed Lever (47) is flush with top of Feed Lever Pivot (49).



31. Position Retaining Clip (50) with legs pointed rearward and straight leg of clip toward Feed Lever (47) and push into position on Feed Lever Pivot (49).



32. Unhook straight leg of Spring (45) by holding hooked leg in place with screwdriver and prying up straight leg with another screwdriver.



To perform remaining reassembly steps, refer to paragraph 2-9.1, Reassembly.

3-15. MAINTENANCE OF RECEIVER ASSEMBLY.

This task covers:
Disassembly/Inspection/Repair/Reassembly

INITIAL SETUP

Tools and Special Tools

Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900
Straight Headless Pin MS9486-75 or
Fabricated Pin (fig E-1, app E)
Combination Tool 9348248

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

Materials/Parts

Wiping Rag (item 3, app D)

Equipment Condition

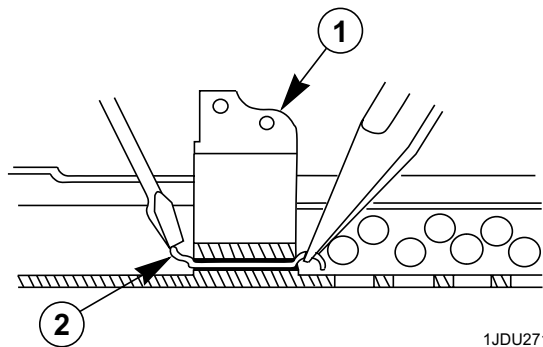
Weapon field stripped.
Cover and Feed Mechanism Assembly
removed from Receiver Assembly.

DISASSEMBLY/INSPECTION/REPAIR

1. On lower inside housing of Receiver Assembly (1), depress tang of Gas Cylinder Retaining Spring (2) using a flat-tip screwdriver. At the same time, pull on hooked end of Gas Cylinder Retaining Spring (2) with needle-nose pliers and remove. Discard Gas Cylinder Retaining Spring (2).

NOTE

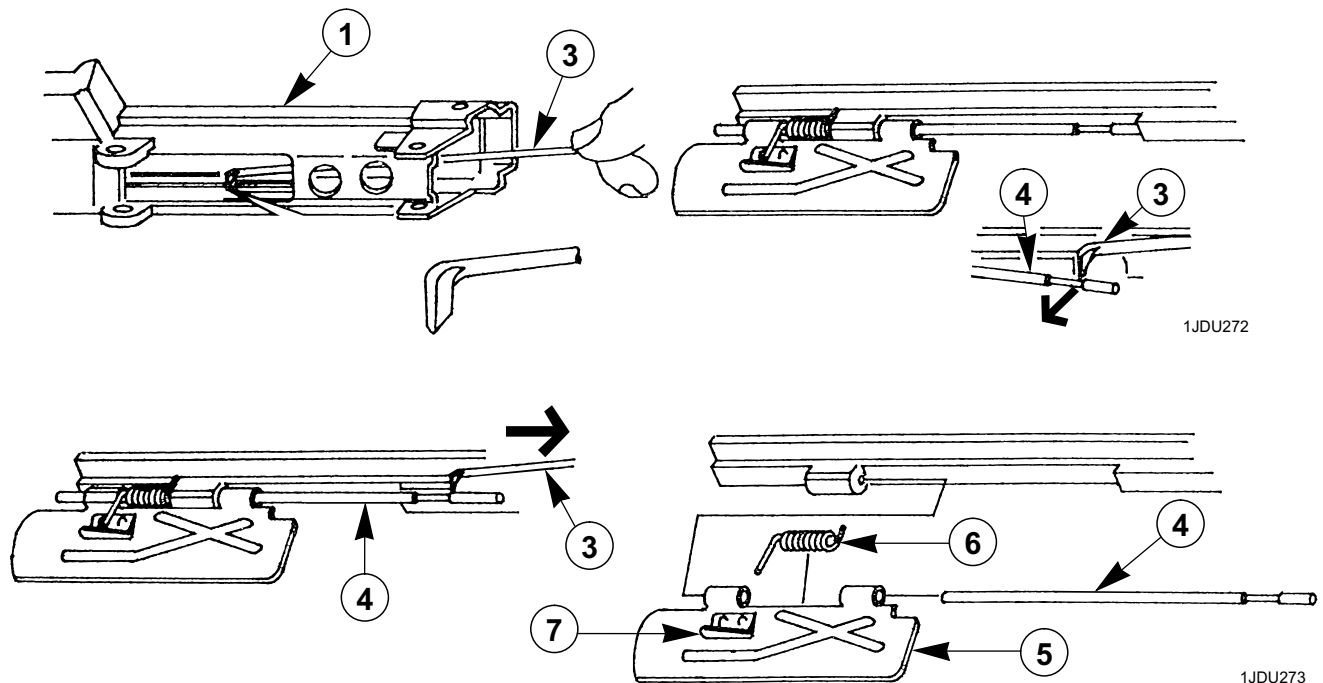
Gas Cylinder Retaining Spring (2) does not have to be removed from Receiver Assembly (1) for inspection. If it does not retain gas cylinder in Receiver Assembly (1), replace Gas Cylinder Retaining Spring (2).



NOTE

DO NOT disassemble Ejection Port Cover (5) from Receiver Assembly (1) for inspection.

2. Reach inside with Combination Tool (3) (item 10, app B) and lift out Grooved, Headless Pin (4) from raised edge inside Receiver Assembly (1). At the same time, pull Grooved, Headless Pin (4) to rear of Receiver Assembly (1). Separate Grooved, Headless Pin (4), Ejection Port Cover (5), and Torsion Spring (6).



3. If Torsion Spring (6) cannot keep Ejection Port Cover (5) latched or if legs of Torsion Spring (6) are bent or broken, replace.

4. If Ejection Port Cover (5) is cracked or bent, or Catch (7) is loose, replace.

5. Visually inspect Grooved Headless Pin (4) for bends, breaks or burrs and replace if damaged.

Steps 6 through 10 were deleted.

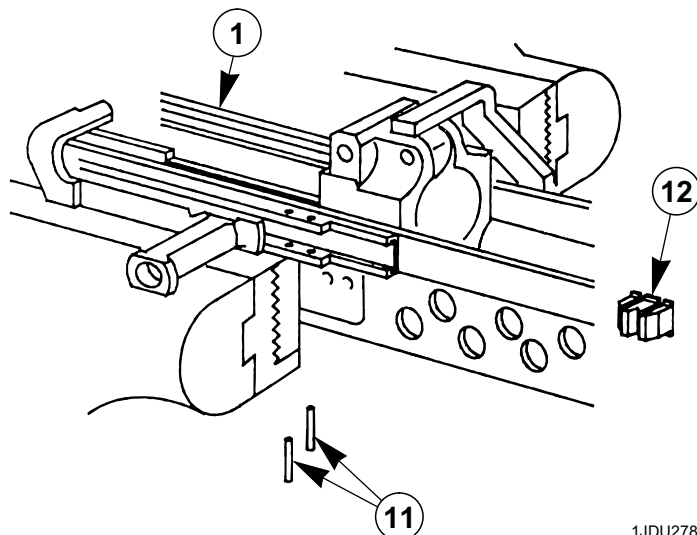
3-15. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

NOTE

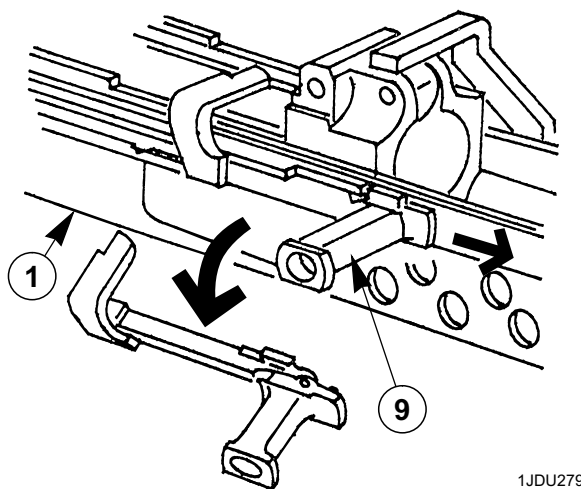
Disassembly/Inspection/Repair of New Style Cocking Handle Stop appears in steps 11 through 13 below.

11. While supporting lower rail of Receiver Assembly (1) on vise with jaws apart, drive out two Spring Pins (11) and discard.



12. Remove Cocking Handle Stop (12) from Receiver Assembly (1).

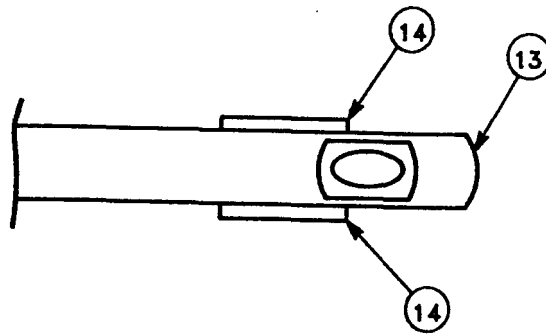
13. Visually inspect Cocking Handle Stop (12) for cracks or damage and replace if damaged.



14. Remove Cocking Handle Assembly (9) from Receiver Assembly (1) by sliding forward and tilting down.

15. Visually inspect cocking handle and if bent or broken, replace Cocking Handle Assembly (9).

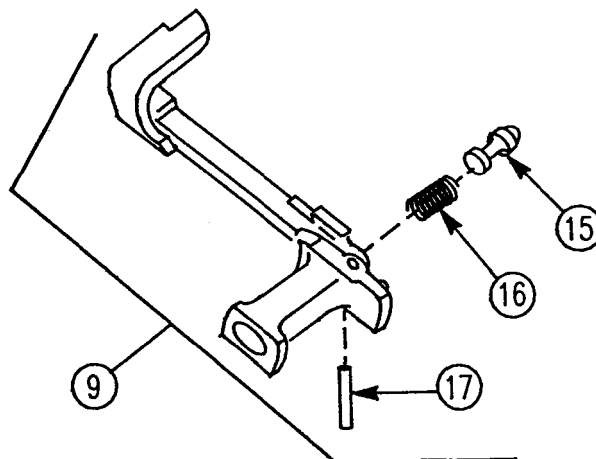
16. If the Cocking Handle (13) is not bent or broken and the weapon is in the shop to correct a condition diagnosed as an override, inspect the Cocking Handle (13) for worn Feet (14) that travel inside the rails of the cocking handle channel. The degree of wear is difficult to determine. However, if an unused Cocking Handle Assembly (9) is placed in the cocking handle channel and the override condition disappears, replace the used Cocking Handle Assembly. No further disassembly is required.



WARNING

Detent Plunger (15) along with
Detent Spring (16) is under
spring tension.

17. Place Cocking Handle Assembly (9) on protective jawed vise with jaws slightly apart, drive out Spring Pin (17) and discard. Separate Detent Plunger (15) and Detent Spring (16) and discard.



18. Remove and discard Retaining Clip (18) from Grooved, Headless Pin (19). Push out Grooved, Headless Pin (19) using straight end of Combination Tool (3) (item 10, app B).

19. Separate Torsion Spring (20) and Magazine Cover (21) from Receiver Assembly (1).

20. If Magazine Cover (21) is cracked or bent, replace.

21. If legs of Torsion Spring (20) are bent or broken, replace.

22. Visually inspect Grooved, Headless Pin (19) for bends, breaks or burrs and replace if damaged.

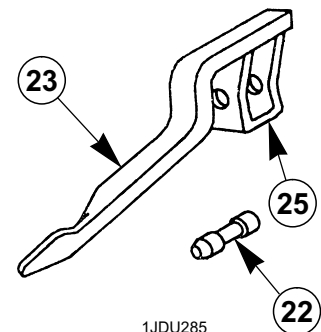
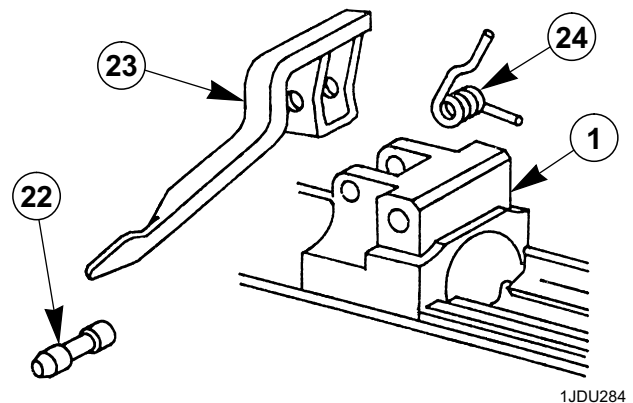
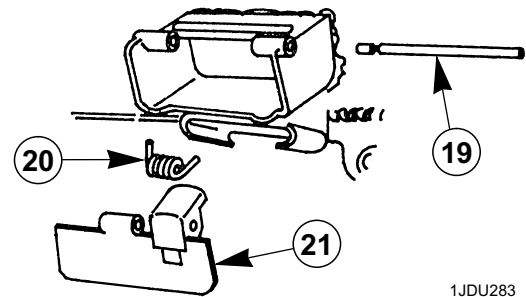
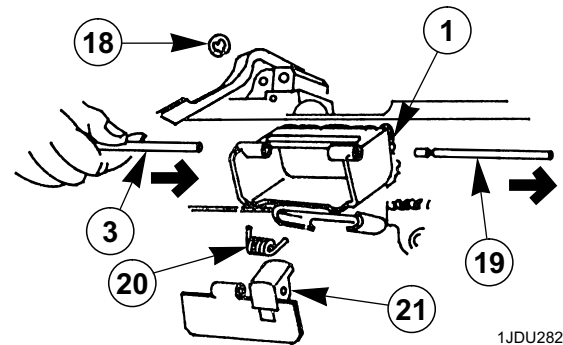
23. Drive out Grooved, Headless Pin (22) from right to left.

24. Remove Barrel Locking Lever (23) and Torsion Spring (24) from Receiver Assembly (1). Discard Torsion Spring (24).

25. Visually inspect Barrel Locking Lever (23) for bent, cracked or broken arm and replace if damaged.

26. If Barrel Locking Lever (23) does not lock barrel assembly into Receiver Assembly (1) and Locking Area (25) is chipped or rounded, replace Barrel Locking Lever (23).

27. Visually inspect Grooved, Headless Pin (22) for burrs or breaks and replace if damaged.

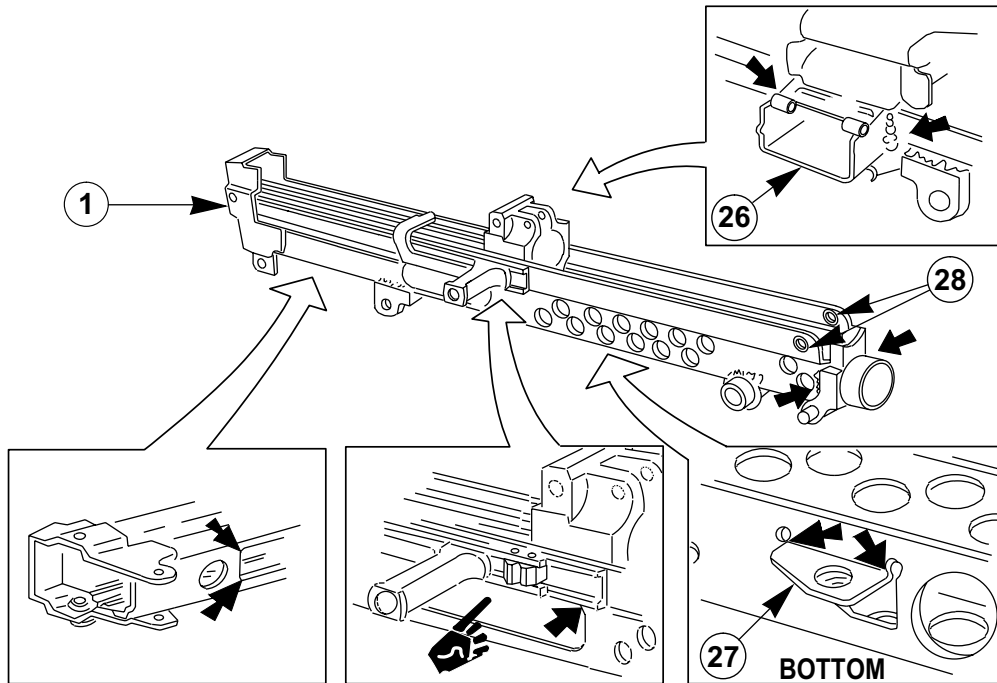


3-15. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

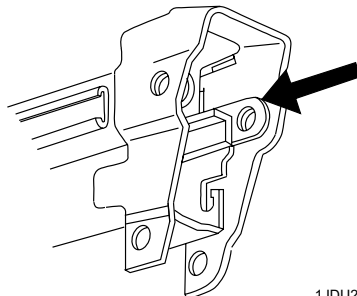
28. Inspect Receiver Assembly (1) for cracks in areas indicated with arrows:

- a. Inspect for cracks in welds around Magazine Sleeve (26) both sides.
- b. Inspect for cracked, bent or missing Handguard Tab (27).
- c. Inspect for cracked or broken Sling Holes (28), both sides.
- d. Inspect for cracks in welds of gas cylinder support, both sides.
- e. Inspect for cracks in the rear radii of the trigger mechanism slot on the bottom of the receiver.
- f. Inspect for cracks in the upper front radius of the ejection port cut out.



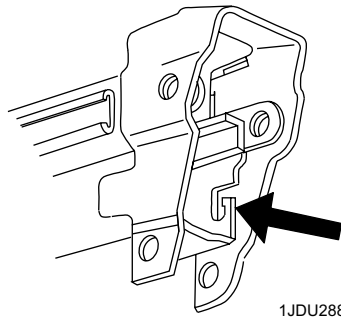
1JDU286

- g. Inspect for elongation and cracks of the take down pin hole in the inner rail, at the rear of the receiver, both sides.

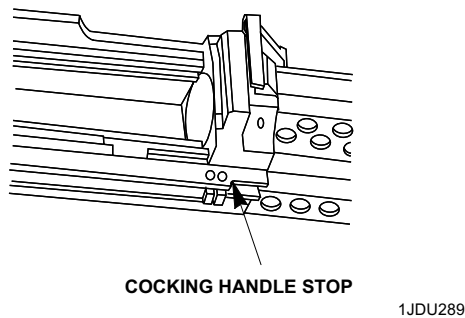


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- h. Inspect for cracked or bent transfer mechanism assembly catches/hooks inside of the receiver, both sides.



- i. Inspect for cracks in the radii (just forward of the stop) of the cocking handle channel.

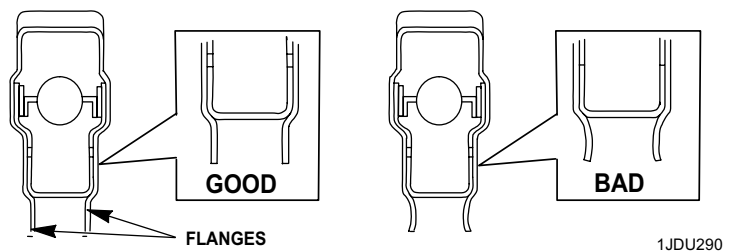


29. Inspect receiver for bends/damage:

- a. Inspect for bent pivot pin/trigger mechanism flanges on bottom rear of receiver, both sides.

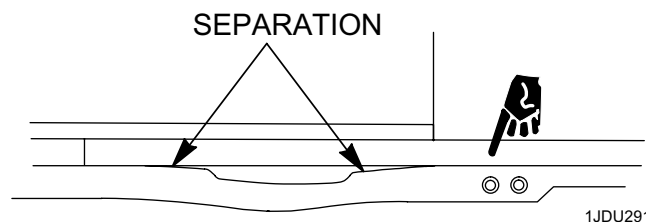
- b. Using the slide assembly from the weapon (minus the bolt and piston assemblies), install in rear of the receiver and slide the entire distance of the rails. If binding is detected, it must be assumed that the receiver is bent or the rails are damaged.

NOTE
Flanges shown exaggerated for clarity.



30. Inspect cocking handle channel for damage:

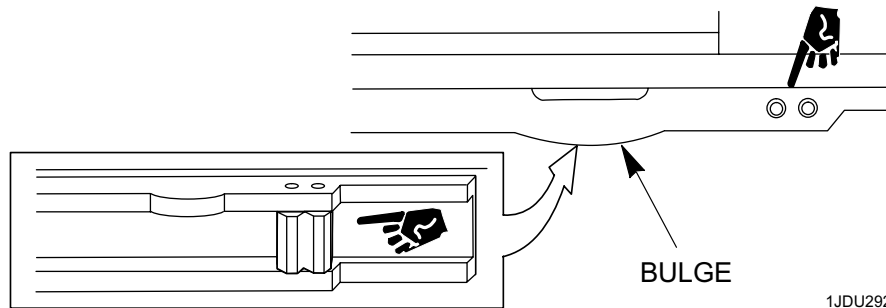
- a. Inspect for separation of cocking handle channel from the receiver side wall.



3-15. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

DISASSEMBLY/INSPECTION/REPAIR (Cont)

- b. Inspect the upper rail of the cocking handle channel for a bulge just rear of the cocking handle stop pins.

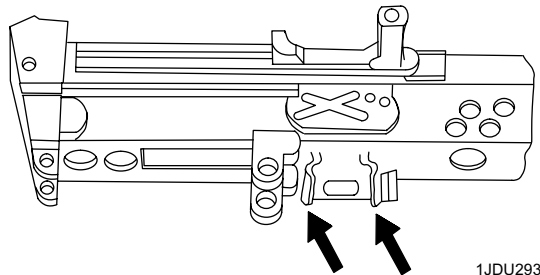


- c. Inspect for worn rails and for presence of notches created by a machining cleanup of excess weld material at new manufacture.

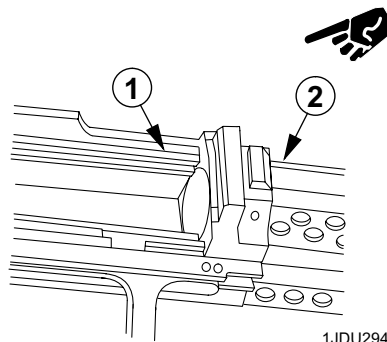
NOTE

IF THE WEAPON IS IN THE SHOP TO CORRECT A CONDITION DIAGNOSED AS AN OVERRIDE (ARM OF COCKING HANDLE ASSEMBLY OVERRIDING/SIPPING BEHIND THE ROLLER ASSEMBLY OF THE SLIDE), WHICH WAS NOT CORRECTED BY REPLACEMENT OF THE COCKING HANDLE ASSEMBLY, IT MUST BE ASSUMED THAT THE COCKING HANDLE CHANNEL IS EITHER SEPARATED FROM THE RECEIVER, BULGED OUTWARDLY OR THE INTERIOR RAILS ARE WORN BEYOND THEIR LIMIT AND THE RECEIVER IS UNSERVICEABLE.

31. Inspect for damaged/bent magazine dovetails on the bottom of the receiver.



32. Inspect left side slide assembly rail (1) (inside receiver) for looseness.



33. Inspect Receiver Assembly (2) for missing exterior finish. If the receiver is missing one third or more of its exterior protective finish, resulting in an unprotected, light reflecting surface, it is a candidate for overhaul.

34. Any damage or missing finish, as identified in steps 28 through 33, shall be considered a shortcoming. These shortcomings require action to obtain a replacement weapon. Once a replacement has been received, evacuate the original weapon to depot for overhaul.

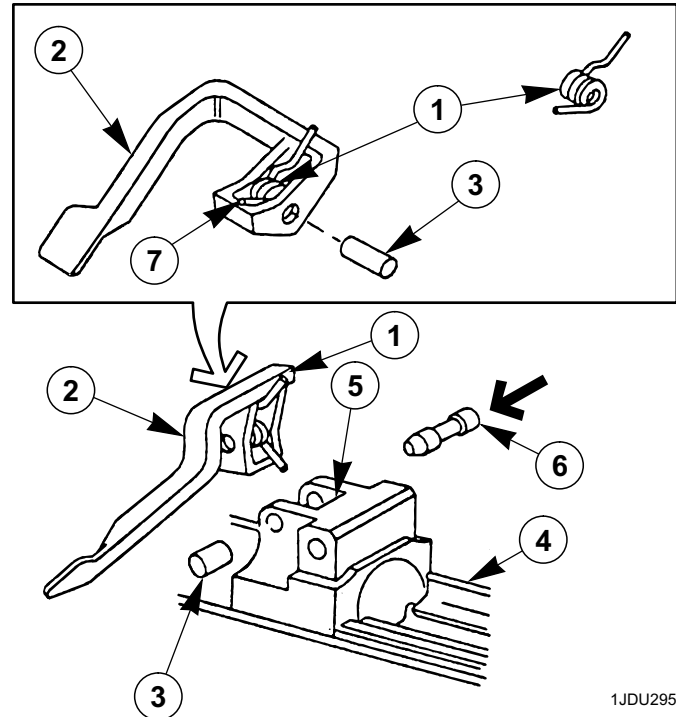
3-15. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

REASSEMBLY

1. Place NEW Torsion Spring (1) into Barrel Locking Lever (2) with Shorter Leg (7) toward bottom of recess.

2. Insert Alining Pin (3) (fig E-1, app E) through Barrel Locking Lever (2) and Torsion Spring (1), flush with sides, and place this temporary assembly into position on Receiver Assembly (4), with bent leg of Torsion Spring (1) hooked under lip of Receiver Block (5).

3. Install Grooved, Headless Pin (6) into Receiver Assembly (4), from right to left forcing out Alining Pin (3).

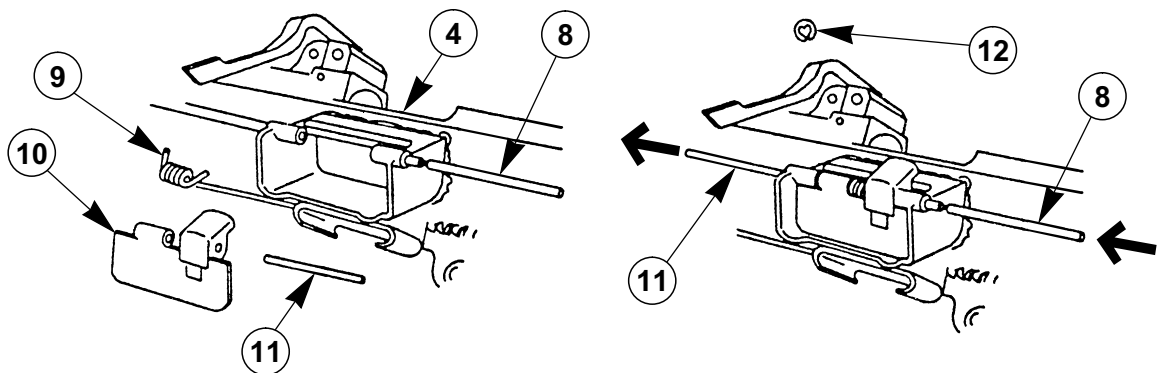


1JDU295

4. Start notched end of Grooved, Headless Pin (8) into rear hinge hole of magazine well on Receiver Assembly (4).

5. Place Torsion Spring (9) between hinges of Magazine Cover (10), with left leg of Torsion Spring (9) inside Magazine Cover (10). Push Alining Pin (11) (fig E-2, app E) through hinges of Magazine Cover (10) and Torsion Spring (9), flush.

6. Insert this temporary assembly between hinges of magazine well on Receiver Assembly (4) with other leg of Torsion Spring (9) inside magazine well. Push in Headless, Grooved Pin (8), forcing out Alining Pin (11). Align notch in Grooved, Headless Pin (8) with space between front hinges and install NEW Retaining Clip (12) into notch of Grooved, Headless Pin (8).



1JDU296

3-15. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

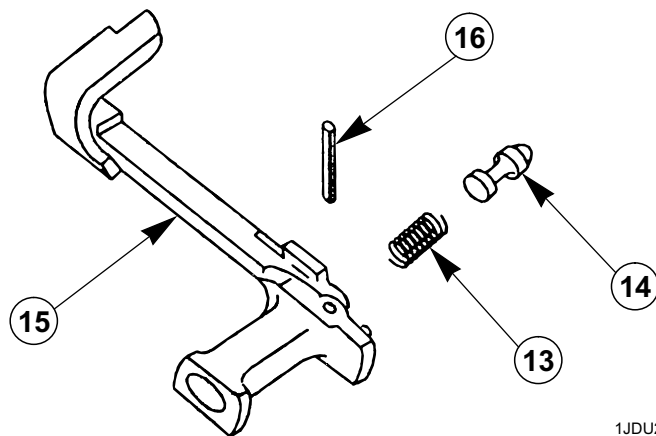
REASSEMBLY (Cont)

MAINTENANCE OF COCKING HANDLE STOP

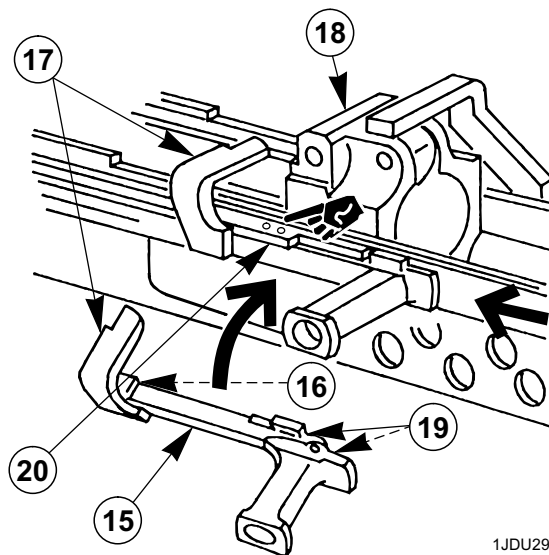
CAUTION

The new style cocking handle is shorter. The new style handle is to be used with the new style cocking handle stop pin.

7. Place NEW Detent Spring (13) and NEW Detent Plunger (14) into Cocking Handle (15). Aline notch of Detent Plunger (14) with hole in Cocking Handle (15) and drive in NEW Spring Pin (16).



8. Tilt Cocking Handle (15) down. Place rear Tab (16) into lower rail of Cocking Handle Channel (20) with Cocking Arm (17) to rear of Receiver Block (18). Tilt Cocking Handle (15) up and slide to the rear, engaging front Tabs (19) into upper and lower rails of Cocking Handle Channel (20).



Steps 9 through 12 were deleted.

NOTE

Reassembly of New Style Cocking Handle Stop Pin appears in steps 13 through 16 below.

CAUTION

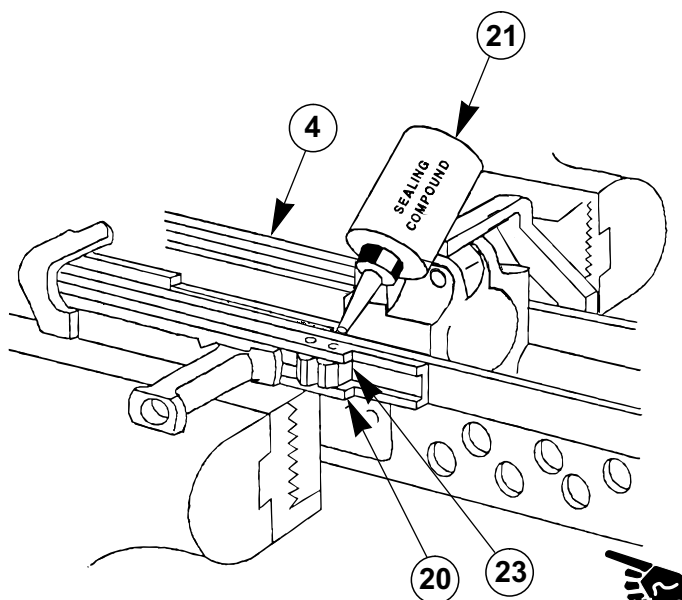
Tape faces of vise jaws to prevent damage to finish of the Receiver Assembly (4).

13. Position Receiver Assembly (4) on vise with jaws apart (DO NOT clamp Receiver Assembly (4) in vise), and support Cocking Handle Channel (20) of Receiver Assembly (4) under pin holes.

14. Place tabs of new style Cocking Handle Stop (23) into Cocking Handle Channel (20), slide toward the rear, and align both holes of Cocking Handle Channel (20) with slots in new style Cocking Handle Stop (23). Apply a drop of Sealing Compound (21) (item 10, app D) to each hole (upper and lower) in the Cocking Handle Channel (20).

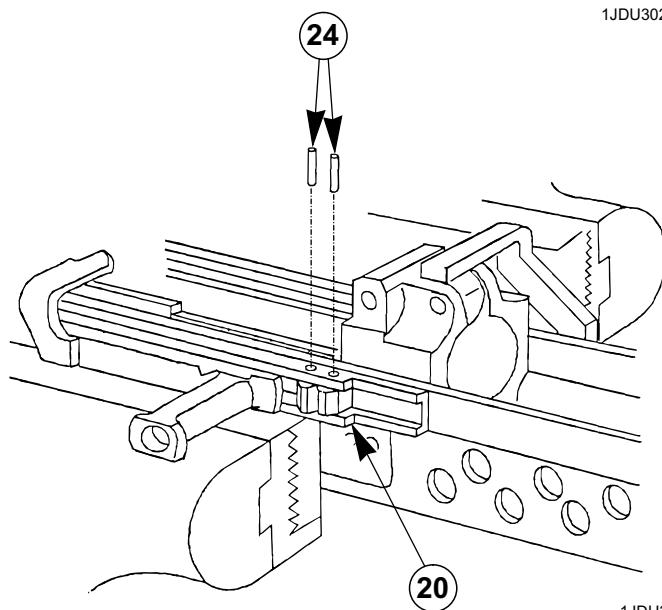
15. Insert two NEW Spring Pins (24) into holes of Cocking Handle Channel (20). Drive in two NEW Spring Pins (24) until equal distance above the Cocking Handle Channel (20) surfaces, top and bottom.

16. Using Wiping Rag (item 3, app D), wipe off excess sealant from pin body and allow to cure for one hour minimum, before use (firing).



**NEW STYLE COCKING
HANDLE STOP**

1JDU302

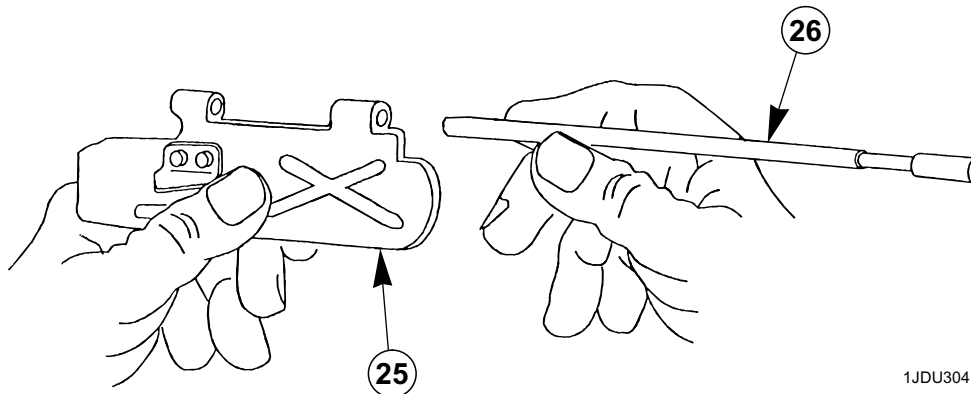


1JDU303

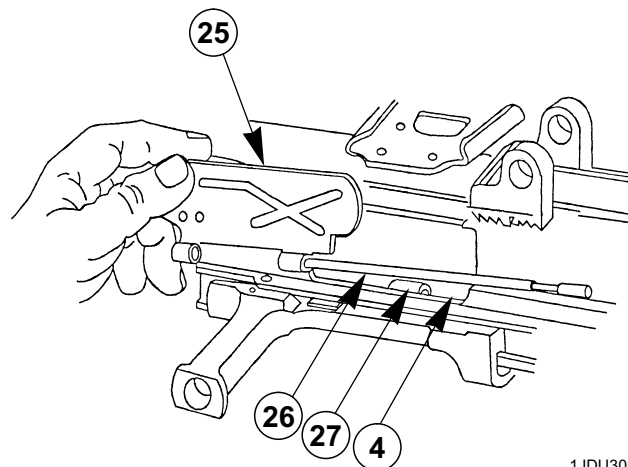
3-15. MAINTENANCE OF RECEIVER ASSEMBLY (Cont).

REASSEMBLY (Cont)

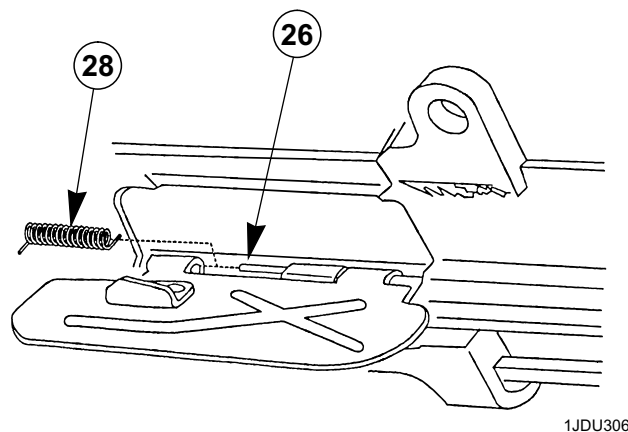
17. Holding the Ejection Port Cover (25) with the catch toward you, the hinges up, and the Grooved, Headless Pin (26), with the notch to the right, start the grooved, headless pin into the right-hand hinge.



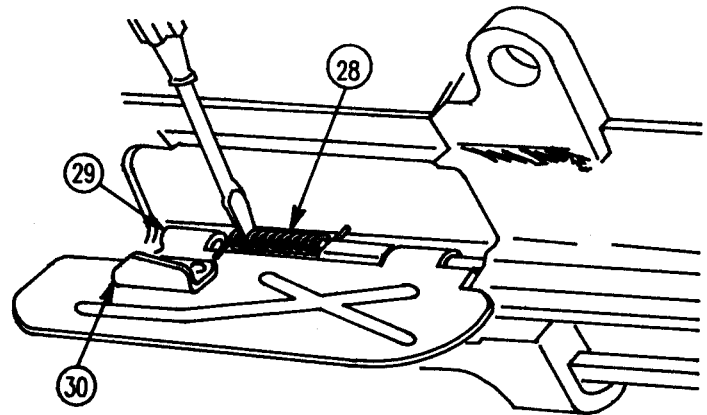
18. Insert the Ejection Port Cover (25) with the Grooved, Headless Pin (26) into the ejection port of the Receiver Assembly (4) and push the Grooved, Headless Pin (26) through the Receiver Hinge (27) exposing about 1/2 inch of the pin.



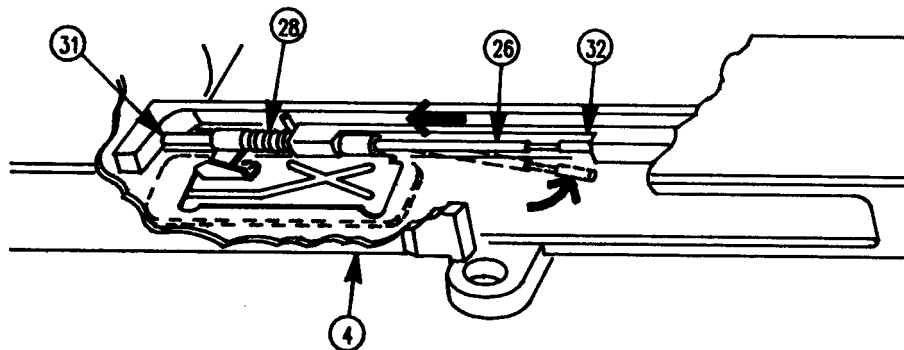
19. With the short leg of the Torsion Spring (28) to the right and down, position the spring onto the exposed end of the Grooved, Headless Pin (26).



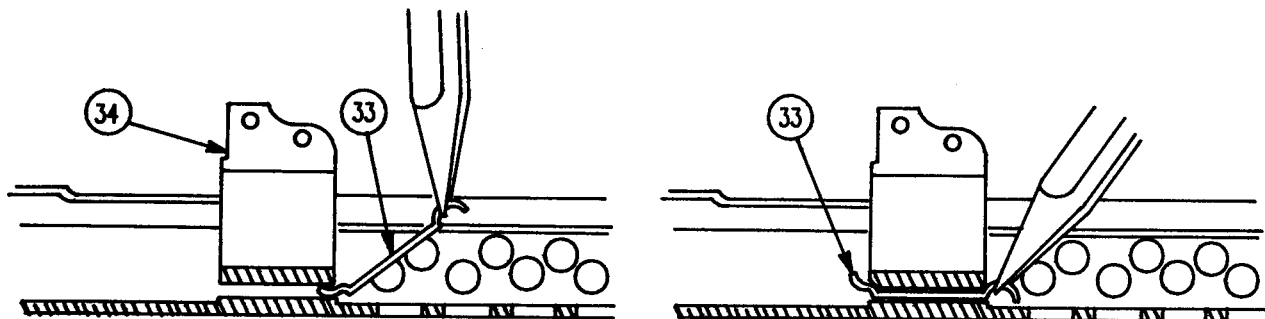
20. Insert a flat-tipped screwdriver between the second and third coil of the Torsion Spring (28), and compress slightly. Position spring into alignment with the second Cover Hinge (29), with the long leg of spring against the Catch (30).



21. Push the Grooved, Headless Pin (26) through the Torsion Spring (28) and into the Hole (31) of the Receiver Assembly (4), allowing the notched end to snap into Slot (32) of the receiver.



22. Grasp hooked end of NEW Gas Cylinder Retaining Spring (33) with needle-nose pliers and install in the lower left hole of the Receiver Block (34) until tang of spring is exposed at the rear of the block.



Section IV. FINAL INSPECTION PROCEDURES

3-16. FINAL INSPECTION.

This task covers:
Gaging/Testing

INITIAL SETUP

Tools and Special Tools

Headspace Gage 9350102
Gage Firing Pin Protrusion 9350104
Trigger Pull Test Fixture
(Component of SC 4933-95-CL-A11
and USMC TAM No. E2900)
Shop Set, Small Arms, Field Maintenance
SC 4933-95-CL-A11
Tool Kit, Small Arms Repairman
USMC TAM No. E2900

Personnel Required

MOS 45B Small Arms Repairer
MOS 2111 Infantry Weapon Repairer
(USMC)

References

TM 9-1005-201-10
TM 08671A-10/1A

Equipment Condition

Machine Gun assembled

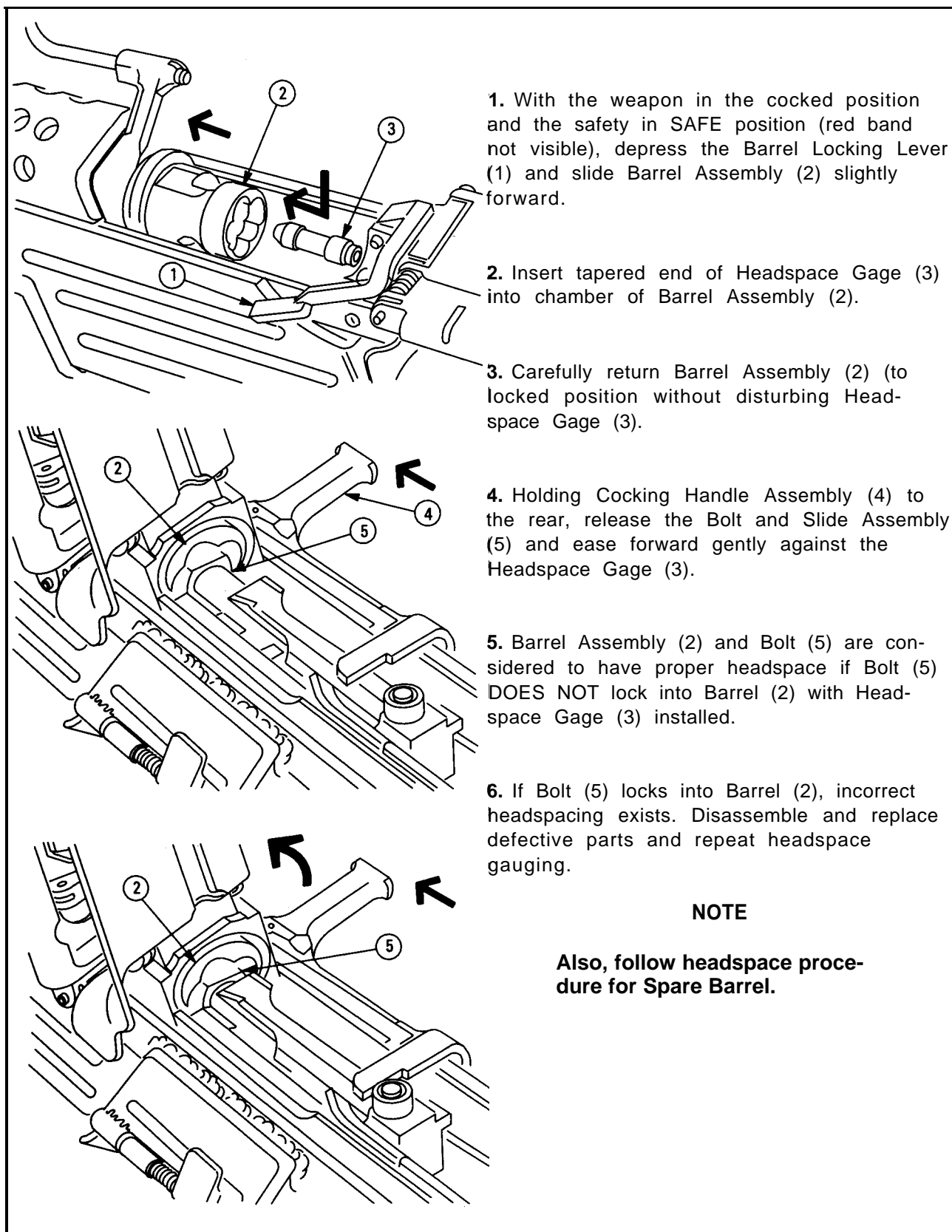
HEADSPACE CHECK

NOTE

Bolt Face and Chamber must be clean and dry prior to checking with Headspace Gage.

WARNING

DO NOT insert Headspace Gage with the Barrel Assembly fully installed in the latched position. Injury can occur to your fingers if Bolt and Slide Assembly is accidentally released, while inserting Headspace Gage through the ammo feed area of the Receiver Assembly.



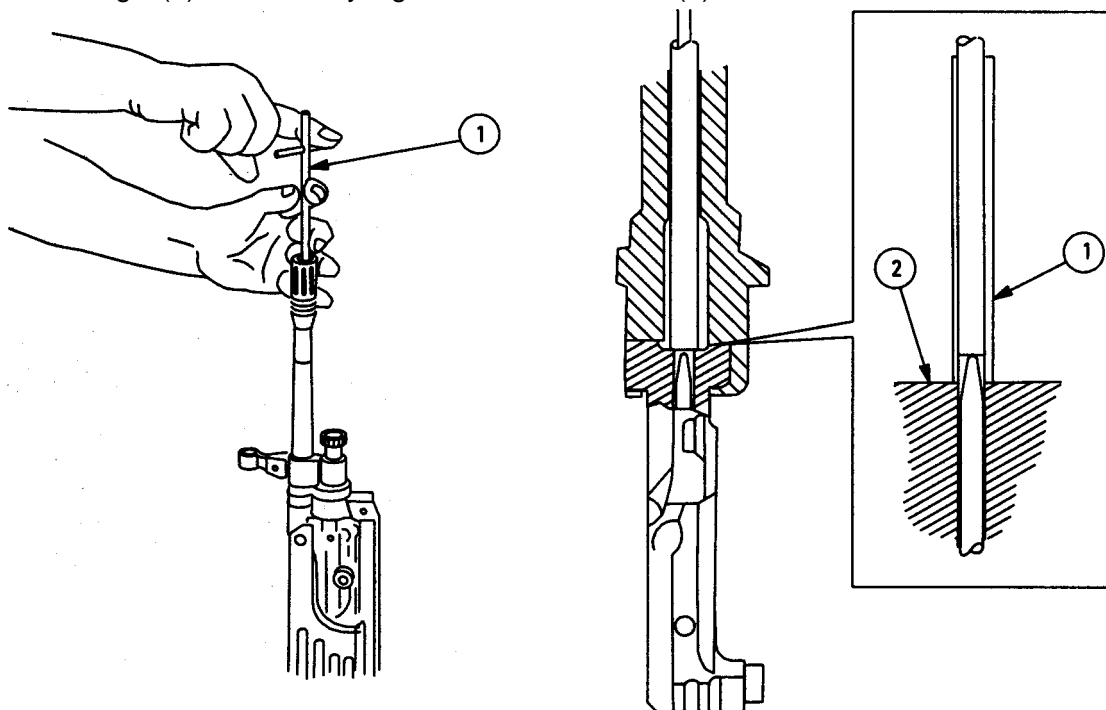
3-16. FINAL INSPECTION (Cont).

FIRING PIN PROTRUSION CHECK

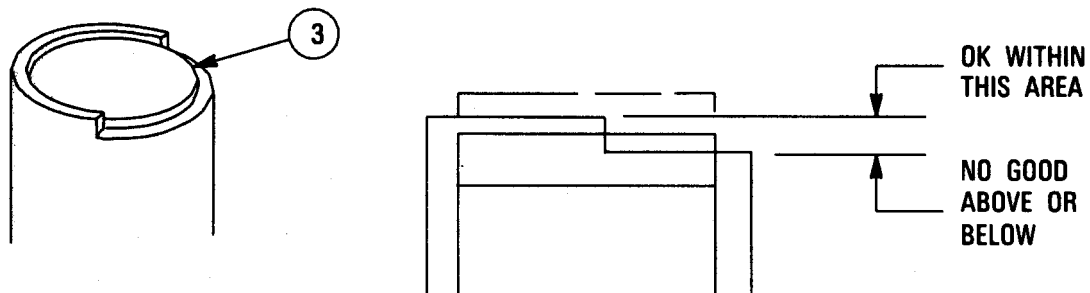
NOTE

Machine Gun must be assembled with bolt face and barrel clean and dry prior to checking with gage.

1. Place machine gun on floor in vertical position with bolt forward and locked.
2. Insert Firing Pin Protrusion Gage (1) in barrel until the bottom end of Firing Pin Protrusion Gage (1) seats firmly against the Bolt Face (2).

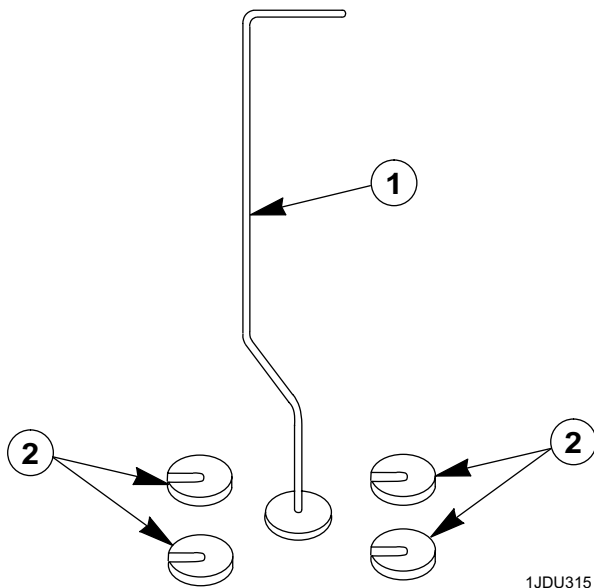


3. Center Rod (3) of firing pin protrusion gage should appear within area indicated. If this condition is not met, replace defective parts and repeat test.

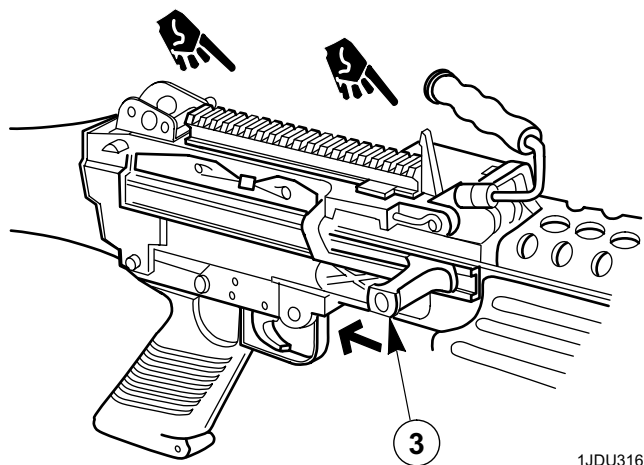


TRIGGER PULL TEST

1. Place Test Fixture (1) on bench and add Test Weights (2) until minimum load of 8.0 lbs (3.63 Kg) is reached.

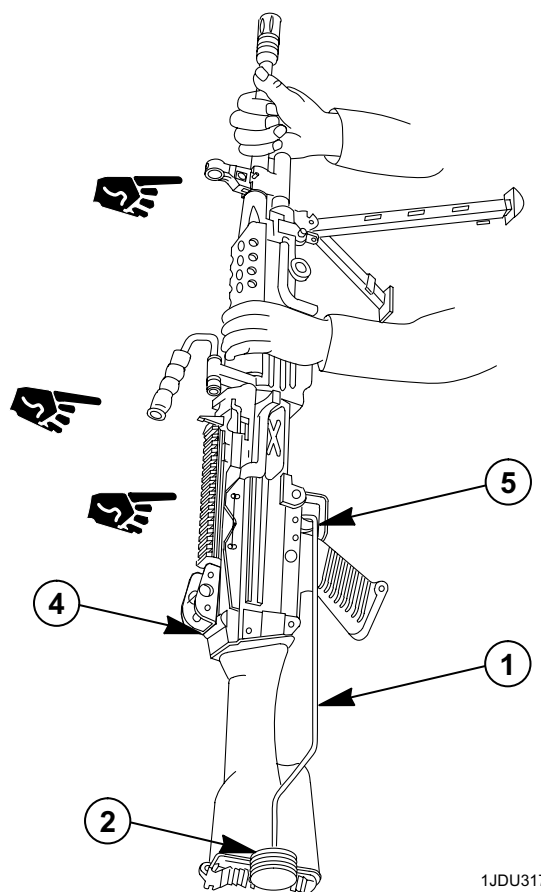


2. Charge weapon by pulling Cocking Handle (3) to rear and place safety in FIRE position (red band visible).



3. Hold Machine Gun (4) in vertical position. Hook end of Test Fixture (1) over Trigger (5) and slowly raise Machine Gun (4) vertically until Test Weights (2) are suspended. The bolt assembly should not move forward to firing position. If Machine Gun (4) fails Trigger Pull Test, replace defective parts and repeat test.

4. Remove Test Fixture (1) and add Weights (2) until maximum load of 15.5 lbs (7.03 Kg) is reached. Repeat above procedures. Bolt assembly should move forward to firing position. If Machine Gun (4) fails Trigger Pull Test, replace defective parts and repeat test.



FUNCTIONAL TEST OF MACHINE GUN.

NOTE

When base or repair activity has range facilities, function fire each weapon.

1. If range facilities are not available place weapon on workbench with bipod legs down and spread.
2. Following loading instructions in operator's manual open Cover and Feed Mechanism Assembly and insert several linked DUMMY rounds, and close cover.
3. Pull cocking handle rearward to sear bolt. Push cocking handle forward until latched in that position. Place in SAFE position (red band not visible) and pull trigger. Bolt should not release.
4. Place weapon safety in FIRE position (red band visible) and pull trigger. Bolt should release and a round stripped and chambered.
5. Pull cocking handle rearward. Ejection of round and link should occur.
6. Repeat steps four and five until all DUMMY rounds are cycled.
7. If machine gun fails Functional Test, replace defective parts and repeat test.

Section V. PRE-EMBARKATION INSPECTION OF MATERIAL

For this inspection, refer to TB 9-1000-247-34 "STANDARDS FOR OVERSEAS SHIPMENT OF SMALL ARMS, AIRCRAFT ARMAMENT, TOWED HOWITZERS, MORTARS, RECOILLESS RIFLES, ROCKET LAUNCHERS AND ASSOCIATED FIRE CONTROL EQUIPMENT".

APPENDIX A REFERENCES

Consult the following publication indexes frequently for the latest changes or revisions of references and for new publication relating to material covered in this manual.

A-1. ARMY REGULATIONS.

- AR 190-11 Physical Security of Arms, Ammunition and Explosives
AR 190-13 The Army Physical Security Program

A-2. DEPARTMENT OF THE ARMY PAMPHLETS.

- DA PAM 25-30 Consolidated Index of Army Publications and Forms
DA PAM 738-750 The Army Maintenance Management System (TAMMS)

A-3. FIELD MANUALS.

- FM 21-11 First Aid for Soldiers
FM 23-14 M249 Machine gun

A-4. FORMS

- AFTO Form 22 Technical Order System Publications Improvement
Report and Reply
DA Form 2028 Recommended Changes to Publications and Blank Forms
NAVMC Form 10772 Recommended changes to Technical Publications
SF 368 Product Quality Deficiency Report (QDR)

A-5. SUPPLY BULLETIN.

- SB 708-41/42 Federal Supply Codes for United States and Canada

A-6. MARINE CORPS ORDERS

- MCO 4855.10 Quality Deficiency Report

A-7. SUPPLY CATALOGS.

- SC 4933-95-CL-A11 Shop Set, Small Arms, Field Maintenance, Basic, Less Power
SC 5180-95-CL-A07 Tool Kit, Small Arms Repairman
USMC TAM No. E2900 Tool Kit, Small Arms Repairman

APPENDIX A
REFERENCES (Cont)

A-8. TECHNICAL BULLETINS.

TM 43-180Calibration and Repair Requirements for the Maintenance of Army Material

■ TI-4733-15/11 H.....Technical Instruction for Marine Corps Only to Identify Their Infantry
Weapon Gage Calibration Program

TB 9-1000-247-34Standards for Overseas Shipment of Small Arms, Aircraft
Armament, Towed Howitzers, Mortars, Recoilless Rifles,
Rocket Launchers and Associated Fire Control Equipment

TB 43-0001-36Equipment Improvement Report and Maintenance Digest
(Quarterly)

A-9. TECHNICAL MANUALS.

■ TM 08671A-10/1A..... Operator's Manual for Machine Gun, 5.56MM, M249

■ TM 9-1005-201-10Operator's Manual for Machine Gun, 5.56MM, M249

■ TM 9-1005-245-13&POperator's, Unit, and Direct Support Maintenance Manual
with Repair Parts and Special Tools List (RPSTL)
for Machine Gun Mounts and Combinations
for Tactical/Armored Vehicles and Ground Mounting

■ TM 9-1240-415-13&POperator, Unit, and Direct Support Maintenance Manual
Including Repair Parts and Special Tools List for Telescope,
Straight, M145

TM 9-4933-273-12&POperator's and Unit Maintenance Manual (Including
Repair Parts and Special Tools List) for Boresight
Equipment, Weapon Small Arms, M30

APPENDIX A
REFERENCES (Cont)

A-9. TECHNICAL MANUALS (Cont).

TM 11-5855-213-10/CIOperator’s Manual, Night vision Sight, Individual Served Weapon, AN/PVS-4 (NSN 5885-00-629-5334).

TM 11-5855-213-23POrganizational and Direct Support Maintenance Repair Parts and Special Tools List for Night Vision Sight, Individual Served Weapon, AN/PVS-4 (NSN 5855-00-629-5334).

TM 11-5855-213-24&POrganizational, Direct Support, and General Support Maintenance Manual, Including Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) For Night Vision Sight, Individual Served Weapon, AN/PVS-4 (NSN 5855-00-629-5334).

TM 750-244-7Procedure for Destruction of Equipment in Federal Supply Classification 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1055, 1090, and 1095 to Prevent Enemy Use.

Marine Corps TM 4700-15/1Equipment Record Procedures

A-10. TECHNICAL ORDERS.

TO 00-35D-54TM, USAF, Material Deficiency Reporting and Investigating System.

TO 11W3-5-5-51Operator’s Manual, Machine Gun, 5.56mm, M249 W/E

A-11. DEPARTMENT OF DEFENSE REGULATIONS

DOD 4160.21-M-1Defense Demilitarization Manual

APPENDIX B MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

B-1. GENERAL.

a. This section provides a general explanation of all maintenance and repair functions authorized at various maintenance categories.

b. The Maintenance Allocation Chart (MAC) in section II designates overall responsibility for the performance of maintenance functions on the identified end item or component. The implementation of the maintenance functions upon the end item or component will be consistent with the assigned maintenance functions.

c. Section III lists the special tools and test equipment required for each maintenance function as referenced from section II.

d. Section IV contains supplemental instructions and explanatory notes for a particular maintenance function.

B-2. MAINTENANCE FUNCTIONS. Maintenance functions will be limited to and defined as follows (except for ammunition MAC¹).

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations rewired periodically to keep an item in proper operating condition, i.e., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, hydraulic fluids, or gases.

d. Adjust. To maintain, within prescribed limits, by bringing into proper or exact position, or by setting the operating characteristics to specified parameters.

e. Aline. To adjust specified variable elements of an item to bring about optimum or desired performance.

f. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipments used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.

g. Install. The act of emplacing, seating, or fixing into position an item, part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.

¹Exception is authorized for ammunition MAC to permit the redesignation/redefinition of maintenance function headings to more adequately identify ammunition maintenance functions. The heading designations and definitions will be included in the appropriate technical manual for each category of ammunition.

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h. Replace. The act of substituting a serviceable like type part, subassembly, or module (component or assembly) for an unserviceable counterpart.

i. Repair. The application of maintenance services² or other maintenance actions³ to restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

j. Overhaul. That maintenance effort (service/action) necessary to restore an item to a completely serviceable/operational condition as prescribed by maintenance standards in appropriate technical publications (i.e., DMWR). Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.

k. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standard. Rebuild is the highest degree of materiel maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (hours/miles, etc.) considered in classifying Army equipments/component.

B-3. EXPLANATION OF COLUMNS IN THE MAC, Section II.

a. Column 1, Group Number. Column 1 lists functional group code numbers, the purpose of which is to identify components, assemblies, subassemblies, and modules with the next higher assembly.

b. Column 2, Component/Assembly. Column 2 contains the names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

c. Column 3, Maintenance Function. Column 3 lists the functions to be performed on the item listed in Column 2. (For detailed explanation of these functions, see paragraph B-2.)

d. Column 4, Maintenance Level. Column 4 specifies, by the listing of a work time figure in the appropriate subcolumn(s), the level of maintenance authorized to perform the function listed in Column 3. This figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number of complexity of the tasks with the listed maintenance function vary at different maintenance levels, appropriate work time figures will be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time, troubleshooting time, and quality assurance/quality control time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the maintenance allocation chart.

C	Operator or crew
O	Organizational maintenance
F	Direct support maintenance
H	General support maintenance
D	Depot maintenance

²Services - inspect, test, service, adjust, align, calibrate, or replace.

³Actions - welding, grinding, riveting, straightening, facing, remachining, or resurfacing.

e. Column 5, Tools and Equipment. Column 5 specifies, by code, those common tool sets (not individual tools) and special tools, TMDE, and support equipment required to perform the designated function.

f. Column 6, Remarks. This column shall, when applicable, contain a letter code, in alphabetic order, which shall be keyed to the remarks contained in Section IV.

B-4. EXPLANATION OF COLUMNS IN TOOL AND TEST EQUIPMENT REQUIREMENTS, Section III.

a. Column 1, Reference Code. The tool and test equipment reference code correlates with a code used in the MAC, Section II, Column 5.

b. Column 2, Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

c. Column 3, Nomenclature. Name or identification of the tool or test equipment.

d. Column 4, National Stock Number. The National stock number of the tool or test equipment.

e. Column 5, Tool Number. The manufacturer's part number.

B-5. EXPLANATION OF COLUMNS IN REMARKS, Section IV.

a. Column 1, Reference Code. The code recorded in column 6, Section II.

b. Column 2, Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC, Section II.

Section IL MAINTENANCE ALLOCATION CHART
FOR
5.56mm MACHINE GUN, M249

(1) Group number	(2) Component Assembly	(3) Main- tenance. function	(4) Maintenance Level					(5) Tools and Eqpt	(6) Remarks
			C	O	F	H	D		
00	Machine Gun, 5.56mm M249 w/Equip								
01	Machine Gun, 5.56mm, M249	Inspect Test Service Remove/ Install Replace Repair Overhaul	0.2 0.2 0.1 0.1 0.1 0.1	0.2 0.3 0.2 0.3 0.1	0.5 0.1			1,2,3 6,7,8	A,B C,D
0101	Barrel Assembly (includes spare barrel assembly)	Inspect Service Remove/ Install Replace Repair	0.1 0.1 0.1 0.1 0.3	0.1 0.1	0.1		10.0	1,2,3, 4,5,6 7,8,9	A,B
0102	Buttstock/Buffer Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.2			1,2,3	A
0103	Return Rod and Transfer Mech- anism Assembly	Inspect Service Replace	0.1 0.1	0.1 0.1 0.1					A
0104	Piston Assembly	Inspect Service Replace	0.1 0.1	0.1	0.1 0.1				A
0105	Bolt Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1	0.1 0.1			1,2	A,B

Section II. MAINTENANCE ALLOCATION CHART (Cont)
FOR
5.56mm MACHINE GUN, M249

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level				(5) Tools and Eqpt	(6) Remarks
			Unit		Direct Support	Depot		
			C	O				
0106	Slide Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1		1,2,3	A
0108	Trigger Mech- anism Assembly	Inspect Test Service Replace Repair	0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1 0.3		1,2,3 4	A,B
010801	Pistol Grip Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1 0.1			1,2,4	A
0110	Bipod, Machine Gun	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1	0.1 0.5		2,3	A
011001	Leg Assembly, Bipod Mount, Left	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.2		2,3	A

Section II. MAINTENANCE ALLOCATION CHART (Cont)
FOR
5.56mm MACHINE GUN, M249

(1) Group Number	(2) Component/ Assembly	(3) Maintenance Function	(4) Maintenance Level				(5) Tools and Eqpt	(6) Remarks
			Unit		Direct Support	Depot		
			C	O	F	D		
011002	Leg Assembly, Bipod Mount, Right	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.2		2,3	A
0111	Receiver Assembly	Inspect Service Repair	0.1 0.1	0.1 0.1 0.1	0.1 0.5		1,2,3 10	A,B C,D
011101	Cover and Feed Mechanism Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.3		2,3	A
011101 01	Feed Pawl Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.3		2,3	A
011101 02	Rear Sight Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.3		2,3	A
011101 0201	Leaf Assembly, Rear Sight	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.2		2,3	A
011102	Cocking Handle Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1	0.1 0.2 0.2		2,3	A

**Section II. MAINTENANCE ALLOCATION CHART
FOR
5.56mm MACHINE GUN, M249**

(1) Group Number	(2) Component Assembly	(3) Mainte- nance Function	(4) Maintenance Level					(5) Tools and Eqpt	(6) Remarks
			Unit		DS	GS	De- pot		
			C	O	F	H	D		
0112	Hand Guard Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1 0.1				1,2,	A
02	Sling and Snap Hook Assembly	Inspect Service Replace	0.1 0.1	0.1 0.1 0.1 0.1					A
03	Stock, Gun, Shoulder M5	Inspect Service Remove/ Install Replace Repair	0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0.1 0.3			1,3	A
04	Adapter Assembly	Inspect Service Replace Repair	0.1 0.1	0.1 0.1 0.1 0.1				1,2	A

Section III. TOOL AND TEST EQUIPMENT REQUIREMENTS

(1) REFERENCE CODE	(2) MAINTENANCE LEVEL	(3) NOMENCLATURE	(4) NATIONAL STOCK NUMBER	(5) TOOL PART NUMBER
1	O	Tool Kit, Small Arms Repairman (Army)	5180-00-357-7770	SC 5180-95-CL-A07
2	O	Tool Kit, Small Arms Repairman (USMC)	5180-00-357-7770	USMC TAM NO. E2900
3	F	Shop Set, Small Arms, Field Maintenance, Basic, Less Power	4933-00-754-0664	SC 4933-95-CL-A11
4	O	Box Spanner	1005-01-141-3826	9350031
5	O	Wrench, Spanner, Front Sight Post	5120-01-141-3839	9350033
6	F	Gage, Breech Bore Erosion	5210-01-259-3454	9350096
7	F	Gage, Headspace Reject	1005-01-141-3830	9350102
8	F	Tool, Front Sight, Adjusting	5120-01-141-4612	9350034
9	F	Tool, Front Sight Assembly	1005-01-315-5229	12540422
10	F	Tool Combination	5120-01-143-9317	9348248
11	F	Gage, Flush in, Plain, Cylindrical, Firing Pin Protrusion	5220-01-141-4732	9350104

MAINTENANCE OF SMALL ARMS GAGES

Small arms gages are precision tools used to quickly and economically inspect dimensions and interface points on small arms weaponry. They are made of tool steel and machined to extremely tight tolerances. With few exceptions, each small arms weapon system has gages used at Direct Support and Depot maintenance levels.

Gages are susceptible to corrosion. To decrease the frequency and severity of corrosion, small arms gages should be periodically degreased with dry cleaning fluid, allowed to dry, and then given a light coating of CLP or similar preservative oil. Wipe the preservative off each gage with a soft cloth before use.

When using small arms gages, carefully follow the instructions given in the appropriate technical manual. Never force a gage! This will cause excessive wear and decrease the serviceable life of the gage.

Small arms gages are susceptible to material displacement as a result of impact. For example, a gage dropped onto a concrete floor may appear perfectly fine to the naked eye, but because it is machined to extremely tight tolerances, material displacement may have occurred. This results in the gage being out of tolerance. To prevent this, perform gaging on tables or workbenches that are padded or covered with vinyl or rubber whenever possible.

Perhaps the most crucial thing you can do to insure your gages are serviceable is to make sure to have them calibrated every 360 days as required by TB 43-180, Calibration and Repair Requirements for the Maintenance of Army Material. Only the Test, Maintenance, and Diagnostic Equipment Laboratories listed in TB 43-180 are authorized and equipped to perform this calibration.

Marine Corps Only: Technical Inspection, TI-4733-15/11 H, as required to identify Infantry Weapon Gage Calibration Program.

Section IV. REMARKS

Reference Code	Remarks
A	When a weapon (includes spare barrel) is received at Unit or Direct Support Maintenance, it must be inspected and any deficiencies found will be repaired or noted for repair at the appropriate maintenance level.
B	When a machine gun (includes spare barrel) is received at Direct Support Maintenance, all gaging requirements must be checked as a standing maintenance procedure. As a minimum requirement, the M249 headspace should be verified annually by Direct Support personnel. At the discretion of the commander, this requirement could be increased to four times a year, or after each training cycle, depending on usage factors.
C	The receiver is a serialized item and not replaceable below Depot level maintenance.
D	Restamping or altering the serial number is prohibited.

APPENDIX C
ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1. SCOPE. This RPSTL lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support, and general support maintenance of the 5.56mm, M249 machine gun. It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the Source, Maintenance and Recoverability (SMR) codes.

C-2. GENERAL. In addition to Section I, Introduction, this Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in item name sequence. Repair parts kits are listed separately in their own functional group within Section II. Repair parts for repairable special tools are also listed in this section. Items listed are shown on the associated illustration(s)/figure(s).

b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in DESCRIPTION AND USABLE ON CODE column) for the performance of maintenance.

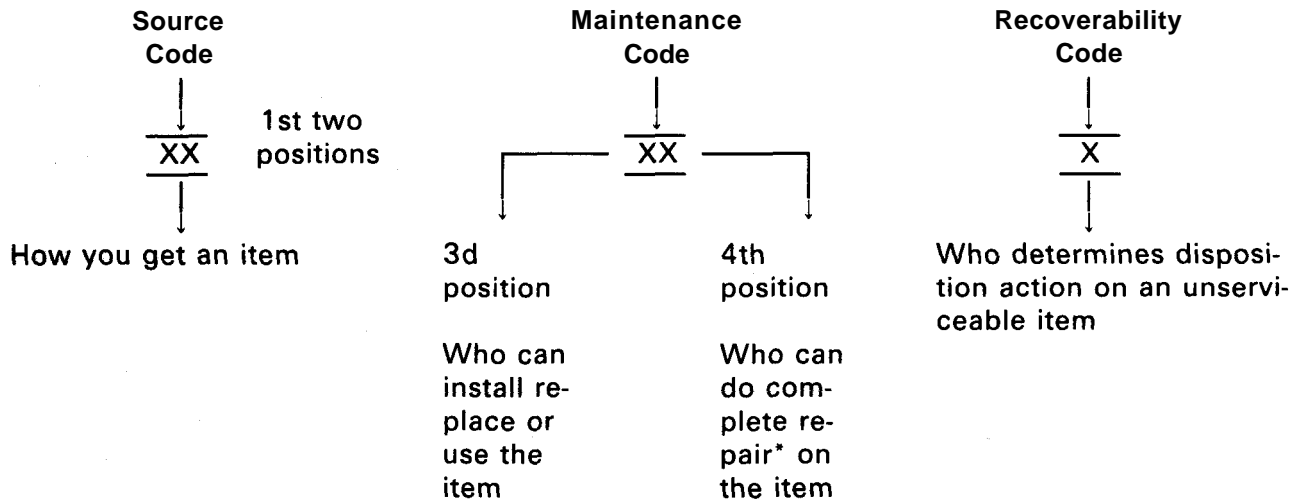
c. Section IV. Cross-reference Indexes. A list, in National Item Identification Number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listing. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance. The figure and item number index lists figure and item numbers in alphanumeric sequence and cross-references NSN, CAGEC, and part numbers.

C-3. EXPLANATION OF COLUMNS (SECTION II AND III).

a. ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

b. SMR CODE (Column (2)). The Source, Maintenance, and Recoverability (SMR) Code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instruction, as shown in the following breakout:

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*Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) Source Code. The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code	Explanation
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> PA PB PC** PD PE PF PG </div>	<p>Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3d position of the SMR codes.</p> <p>**NOTE: Items coded PC are subject to deterioration.</p>
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> KD KF KB </div>	<p>Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3d position of the SMR code. The complete kit must be requisitioned and applied.</p>
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> MO - (Made at org/ AVUM Level) MF - (Made at DS/ AVIM Level) MH - (Made at GS Level) ML - (Made at Special Repair Act (SRA)) MD - (Made at Depot) </div>	<p>Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the Bulk Material Group of the repair parts list in this RPSTL. If the item is authorized to you by the 3d position code of the SMR Code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance.</p>

Code

Explanation

AO - (Assembled by org/AVUM Level) AF - (Assembled by DS/AVIM Level) AH - (Assembled by GS category) AL - (Assembled by SRA) AD - (Assembled by Depot)

Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the 3d position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance.

- XA - Do not requisition an "XA" - coded item. Order its next higher assembly. (Also, refer to the NOTE below.)
- XB - If an "XB" - coded item is not available from salvage, order it using the CAGEC and part number given.
- XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD - Item is not stocked. Order an "XD" - coded item through normal supply channels using the CAGEC and part number given, if no NSN is available.

NOTE: Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 700-42.

(2) Maintenance Code. Maintenance Codes tell you the level(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following levels of maintenance.

Code

Application/Explanation

- C Crew or operator maintenance done within organizational or aviation unit maintenance.
- O Organizational or aviation unit category can remove, replace and use the item.
- F Direct support or aviation intermediate level can remove, replace, and use the item.
- H General support level can remove, replace, and use the item.

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Code	Application/Explanation
-------------	--------------------------------

- L Specialized repair activity can remove, replace, and use the item.
- D Depot level can remove, replace, and use the item.

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (i.e., perform all authorized repair functions). **(NOTE:** Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

Code	Application/Explanation
-------------	--------------------------------

- O Organizational or aviation unit is the lowest level that can do complete repair of the item.
- F Direct support or aviation intermediate is the lowest level that can do complete repair of the item.
- H General support is the lowest level that can do complete repair of the item.
- L Specialized repair activity is the lowest level that can do complete repair of the item.
- D Depot is the lowest level that can do complete repair of the item.
- Z Nonreparable. No repair is authorized.
- B No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

(3) Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

Recoverability Code	Application/Explanation
--------------------------------	--------------------------------

- Z Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3d position of SMR Code.
- O Repairable item. When uneconomically repairable, condemn and dispose of the item at organizational or aviation unit level.
- F Repairable item. When uneconomically repairable, condemn and dispose of the item at direct support or aviation intermediate level.

Recoverability Code	Application/Explanation
H	Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item not authorized below depot level.
L	Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA).
A	Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material). Refer to appropriate manuals/directives for specific instructions.

c. STOCK NUMBER (Column 3)). This column lists the NSN for the item.

d. CAGEC (Column 4)). The Contractor and Government Entity Code (CAGEC) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

e. PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE: When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered.

f. DESCRIPTION AND USABLE ON CODE (UOC) (Column 6)). This column includes the following information:

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The physical security classification of the item is indicated by the parenthetical entry (Phy Sec Cl (C) - Confidential, Phy Sec Cl (S) - Secret, Phy Sec Cl (T) - Top Secret).

(3) Items that are included in kits and sets are listed below the name of the kit or set.

(4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.

(5) Part numbers for bulk materials are referenced in this column in the line entry for the item to be manufactured/fabricated.

(6) When the item is not used with all serial numbers of the same model, the effective serial numbers are shown on the last line(s) of the description (before UOC).

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(7) The usable on code, when applicable (see paragraph 5, Special information).

(8) In the Special Tools List section, the Basis of Issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipment supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

(9) The statement "END OF FIGURE" appears just below the last item description in Column 5 for a given figure in both Section II and Section III.

g. QTY (Column (7)). The QTY (quantity per figure column) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that the quantity is variable and the quantity may vary from application to application.

C-4. EXPLANATION OF COLUMNS (SECT. IV).

a. NATIONAL STOCK NUMBER (NSN) INDEX.

(1) **STOCK NUMBER column.** This column lists the NSN by National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN

NSN
(i.e., 5305-01-674-1467). When using this column to locate an item, ignore the first 4 digits
NIIN
of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) **FIG. column.** This column lists the number of the figure where the item is identified/located. The figures are in numerical order in Section II and Section III.

(3) **ITEM column.** The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

b. PART NUMBER INDEX. Part numbers in this index are listed by part number in ascending alphanumeric sequence (i.e., vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

(1) **CAGEC column.** The Contractor and "Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

(2) **PART NUMBER column.** Indicates the primary number used by the manufacturer (individual, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

(3) STOCK NUMBER column. This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and CAGEC columns to the left.

(4) FIG. column. This column lists the number of the figure where the item is identified/located in Section II and III.

(5) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

c. FIGURE AND ITEM NUMBER INDEX.

(1) FIG. column. This column lists the number of the figure where the item is identified/located in Section II and III.

(2) ITEM column. The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

(3) STOCK NUMBER column. This column list the NSN for the item.

(4) CAGEC column. The Contractor and Government Entity Code (CAGEC) is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency; etc., that supplies the item.

(5) PART NUMBER column. Indicates the primary number used by the manufacturer (individual, firm corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

C-5. SPECIAL INFORMATION.

a. FABRICATION INSTRUCTIONS. Bulk materials required to manufacture items are listed in the Bulk Material Functional Group of this RPSTL. Part numbers for bulk materials are also referenced in the description column of the line item entry for the item to be manufactured/fabricated. Detailed fabrication instructions for items source coded to be manufactured or fabricated are found in appendix E.

b. ASSEMBLY INSTRUCTIONS. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in this maintenance manual. Items that make up the assembly are listed immediately following the assembly item entry or reference is made to an applicable figure.

c. ILLUSTRATIONS LISTING. Only those parts coded 'C' or 'O' in the third position of the SMR Code are listed in the tabular listing; therefore there may be a break in the item number sequence. Only illustrations containing organizational or aviation unit authorized items appear in this RPSTL.

C-6. HOW TO LOCATE REPAIR PARTS.

a. When National Stock Number or Part Number Is Not Known.

(1) **First.** Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) **Second.** Find the figure covering the assembly group to which the item belongs.

(3) **Third.** Identify the item on the figure and note the item number.

(4) **Fourth.** Refer to the Repair Parts List for the figure to find the part number for the item noted on the figure.

(5) **Fifth.** Refer to the Part Number Index to find the NSN, if assigned.

b. When National Stock Number or Part Number Is Known.

(1) **First.** Using the Index of National Stock Numbers and Part Numbers, find the, pertinent National Stock Number or Part Number. The NSN index is in National item identification Number (NIIN) sequence (see 4.1(1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4.b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) **Second.** After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

C-7. ABBREVIATIONS. Not Applicable.

C-8 Change 5

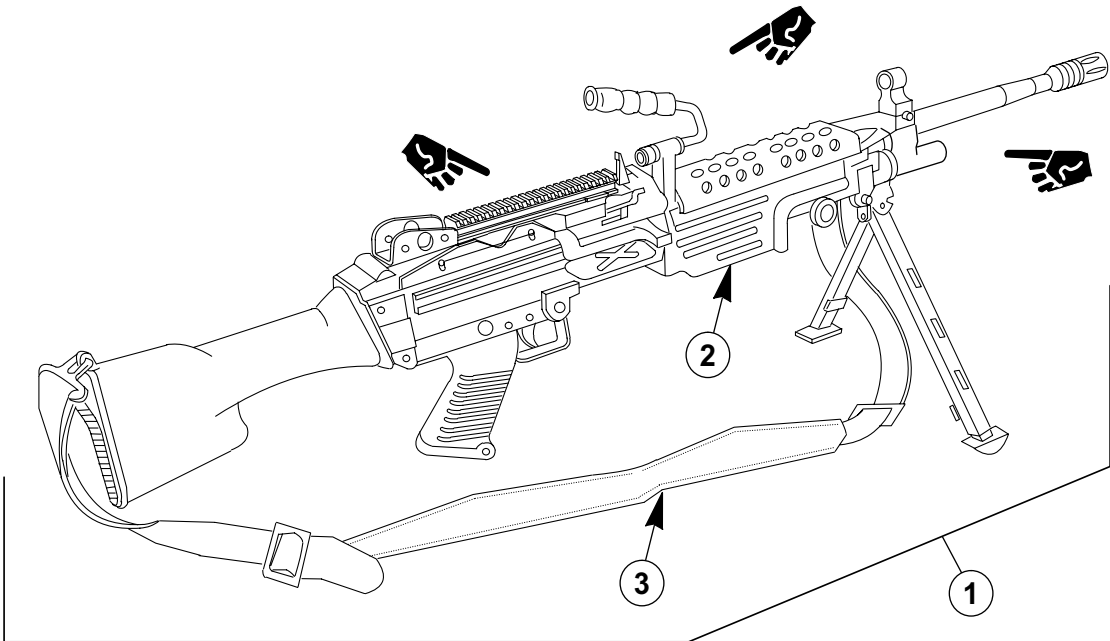
b. When National Stock Number or Part Number is Known.

(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National Stock Number or Part Number. The NSN index is in National Item Identification Number (NIIN) sequence (see 4.1 (1)). The part numbers in the Part Number index are listed in ascending alphanumeric sequence (see 4.b). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

(2) Second. After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

C-7. ABBREVIATIONS. (Abbreviations must be applicable to specific RPSTL and not listed in MIL-STD-12) Not applicable.

SECTION II. REPAIR PARTS LIST



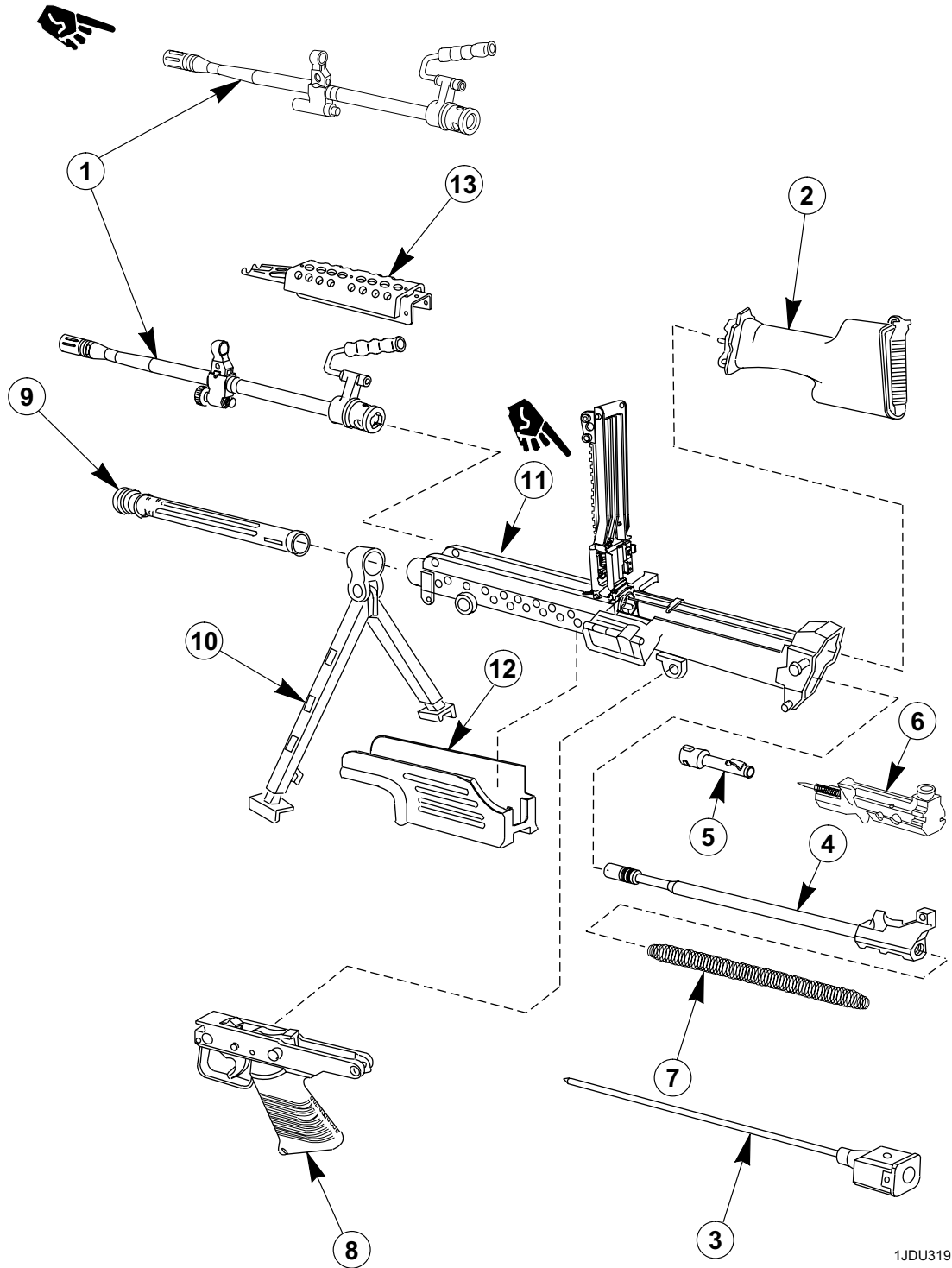
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FIGURE C-1. MACHINE GUN, 5.56MM, M249 W/EQUIP.

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 00. MACHINE GUN, 5.56MM M249, W/EQUIP 9348199						
FIG. C-1. MACHINE GUN, 5.56MM M249, W/EQUIP						
1	PAFDA	1005-01-127-7510	19200	9348199	MACHINE GUN, 5.56MM, M249 W/EQUIP	1
2	XAFDA		19200	9348200	MACHINE GUN, 5.56MM, M249 (SAW)(ICOEI FOR M249 MACHINE GUN W/EQUIP)(GROUP 01)	1
3	AOOOO		19200	9348467	SLING AND SNAP HOOK ASSEMBLY (ICOEI FOR M249 MACHINE GUN W/EQUIP) (GROUP 02)	1

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued



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Change 7

Figure C-2. Machine Gun, 5.56MM, M249.

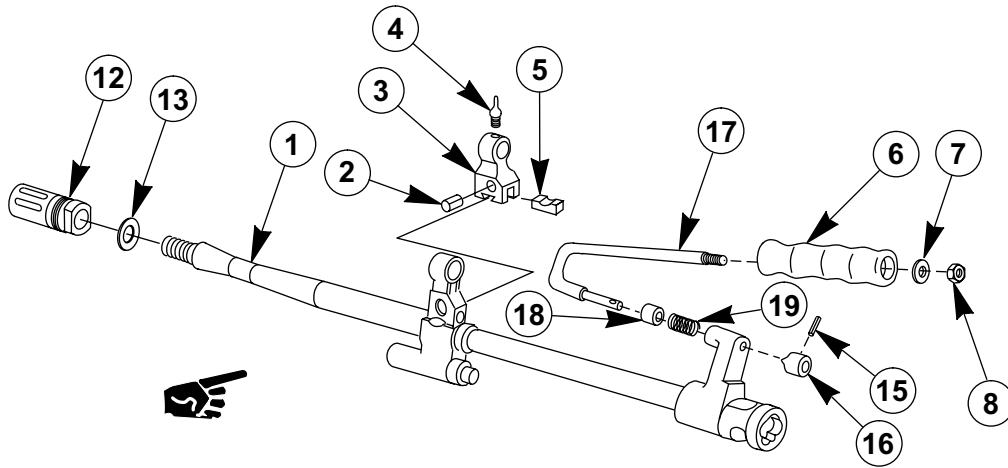
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SECTION II. REPAIR PARTS LIST - Continued

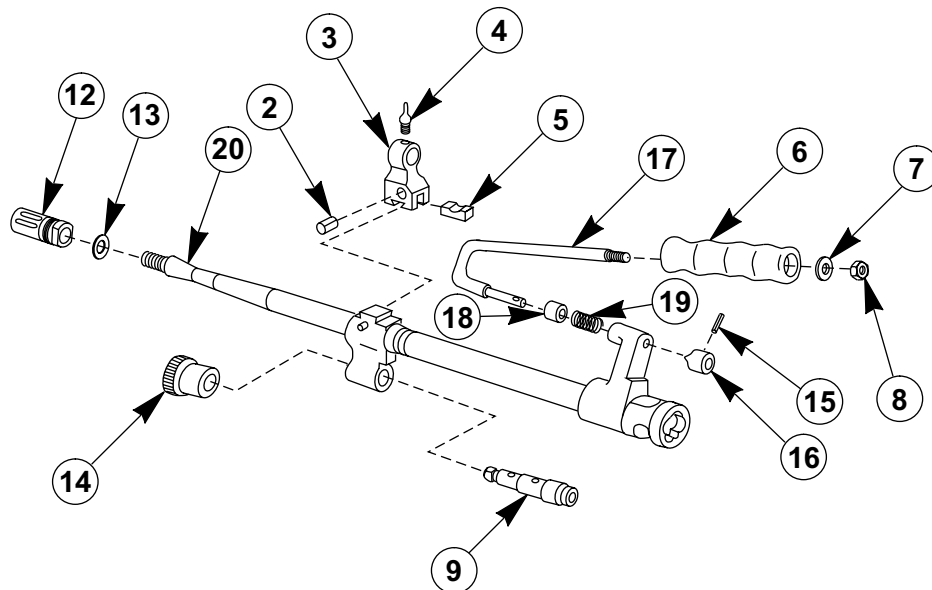
(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 01. MACHINE GUN 5.56MM, M249 9348200						
FIG. C-2. MACHINE GUN, 5.56MM, M249						
1	PAFFF	1005-01-470-5046	19200	12011986	BARREL ASSEMBLY, MONO (GROUP 0101)	1
1	PAFFF	1005-01-387-8516	19200	12556957	BARREL ASSEMBLY (REPLACES ABOVE BARREL ASSEMBLY BY ATTRITION) (GROUP 0101)	1
2	AFFFF		19200	12556935	BUTTSTOCK/BUFFER ASSEMBLY (GROUP 0102)	1
3	PAOOO	1005-01-254-9801	19200	12540416	ROD, RETURN AND TRANSFER ASSEMBLY (GROUP 0103)	
4	PAFZZ	1005-01-134-6737	19200	9348405	PISTON, GUN GAS CYLINDER (GROUP 0104)	1
5	AFFFF		19200	9348412	BOLT ASSEMBLY (GROUP 0105)	1
6	AFFFF		19200	9348391	SLIDE ASSEMBLY (GROUP 0106)	1
7	PAOZZ	5360-01-128-5632	19200	9348452	SPRING, HELICAL, COMPRESSION	1
8	AFFFF		19200	9348350	TRIGGER, MECHANISM ASSEMBLY (GROUP 0108)	1
9	PAOZZ	1005-01-128-5492	19200	9348345	GAS CYLINDER ASSEMBLY	1
10	PAOFF	1005-01-130-3506	19200	9348320	BIPOD, MACHINE GUN (GROUP 0110)	1
11	XAFDA		19200	9348201	RECEIVER ASSEMBLY (GROUP 0111)	1
12	PAOOO	1005-01-324-9191	19200	12556973	GUARD, HAND, GUN ASSEMBLY (GROUP 0112)	1
13	PAOZZ	1005-01-249-0184	19200	12540405	HEAT SHIELD ASSEMBLY	1

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued



NEW MONO-BLOCK STYLE BARREL ASSEMBLY - 12011986



OLD STYLE BARREL ASSEMBLY - 12556957

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SECTION II. REPAIR PARTS LIST - Continued

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 0101. NEW BARREL STYLE ASSEMBLY 12011986 BARREL ASSEMBLY 12556957	
FIG. C-3. BARREL ASSEMBLIES						
1	XAFZZ		19200	12011985	BARREL SUBASSEMBLY (USED ON BARREL ASSEMBLY 12011986)	1
2	PAFZZ	5315-01-211-8392	19200	9350048	PIN, SPRING (USED ON BARREL ASSEMBLY 12011986 AND 12556957).....	1
3	PAFZZ	1005-01-128-5466	19200	9348441	BASE, FRONT SIGHT (USED ON BARREL ASSEMBLY 12011986 AND 12556957)	1
4	PAOZZ	1005-01-128-5465	19200	9348442	POST, FRONT SIGHT	1
5	PAFZZ	1005-01-211-8368	19200	9350047	KEY, BASE (USED ON BARREL ASSEMBLY 12011986 AND 12556957).....	1
6	PAOZZ	1005-01-135-4765	19200	9348438	GRIP, CARRYING HANDLE	1
7	PAOZZ	5310-01-128-5676	19200	9348439	WASHER, SPRING TENSION	1
8	PAOZZ	5310-01-128-5651	19200	9348440	NUT, SELF-LOCKING HEXAGON	1
9	PAOZZ	1005-01-128-5464	19200	9348437	PLUG, GAS REGULATOR	1
10					Deleted	
11					Deleted	
12	PAOZZ	1005-01-134-3633	19200	9349051	COMPENSATOR (USED ON BARREL ASSEMBLY 12011986 AND 12556957)	1
13	PAOZZ	5310-01-284-8541	19200	12557006	WASHER, RECESSED COMPENSATOR (USED ON BARREL ASSEMBLY 12011986 AND 12556957).....	1
14	PAOZZ	1005-01-036-7160	19200	11825992	COLLAR, GAS REGULATOR (USED ON BARREL ASSEMBLY 12556957).....	1
15	PAOZZ	5315-01-299-4164	19200	12557012	PIN, SPRING (USED ON BARREL ASSEMBLY 12011986 AND 12556957)	1
16	PAOZZ	1005-01-299-4657	19200	12557020	RING, CARRYING HANDLE (USED ON BARREL ASSEMBLY 12011986 AND 12556957).....	1
17	PAOZZ	5340-01-301-8218	19200	12557008	HANDLE, BOW (USED ON BARREL ASSEMBLY 12011986 AND 12556957)	1
18	PAOZZ	3120-01-299-4159	19200	12557009	BUSHING, SLEEVE (USED ON BARREL ASSEMBLY 12011986 AND 12556957)	1
19	PAOZZ	5360-00-078-0122	96906	MS24585C279	SPRING, HELICAL, COMP (USED ON BARREL ASSEMBLY 12011986 AND 12556957)	1
20	XAFZZ		19200	12557001	BARREL SUBASSEMBLY (USED ON BARREL ASSEMBLY 12556957)	1

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued

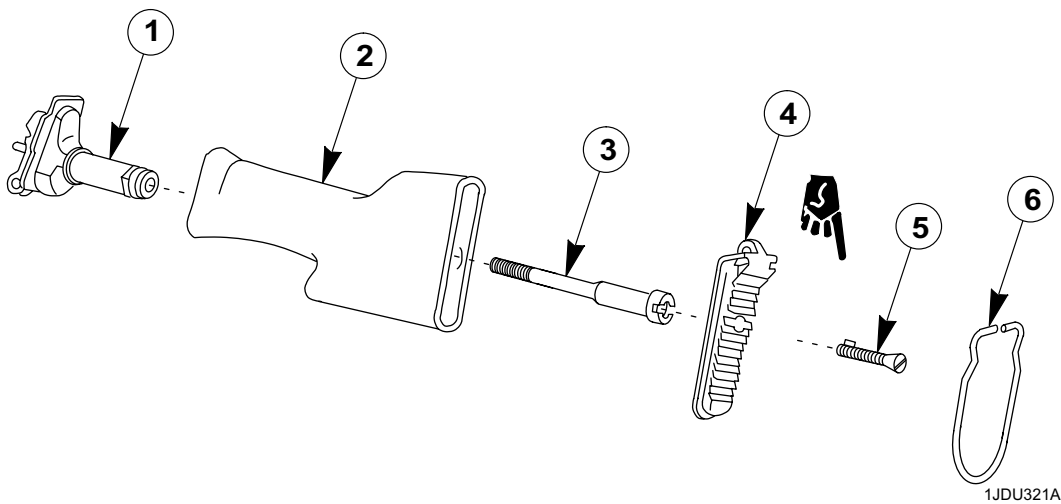


Figure C-4. Buttstock/Buffer Assembly.

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 0102. BUTTSTOCK/BUFFER ASSEMBLY 12556935						
FIG. C-4. BUTTSTOCK/BUFFER ASSEMBLY						
1	PAFZZ	1005-01-306-2700	19200	12556951	BUFFER AND BACK PLATE ASSEMBLY	1
2	PAFZZ	1005-01-278-6898	19200	12556939	STOCK, GUN, SHOULDER	1
3	PAFZZ	5305-01-280-9759	19200	12556938	SCREW, SHOULDER	1
4	PAOZZ	1005-01-274-6345	19200	12556940	PLATE, BUTT, SHOULDER	1
5	PAOZZ	5305-01-452-9638	19200	12556936	SCREW, SLOTTED	1
6	PAOZZ	1005-01-274-5102	19200	12556941	REST, SHOULDER	1

END OF FIGURE

FIGURES C-4A and C-4B WERE DELETED.

SECTION II. REPAIR PARTS LIST - Continued

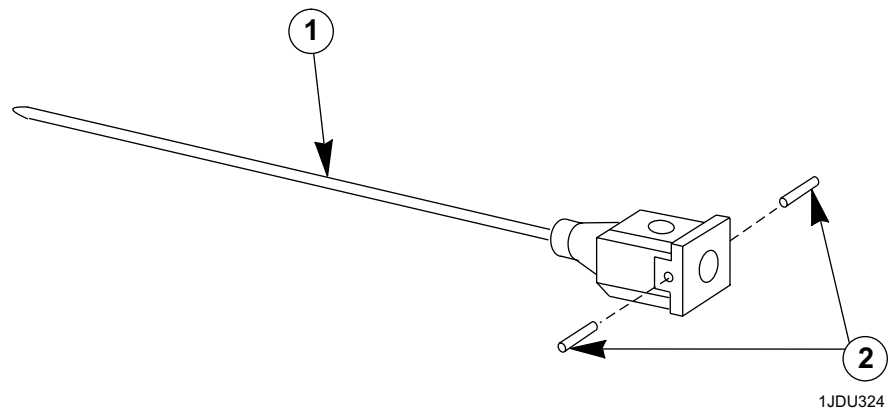


FIG. C-4C. RETURN ROD AND TRANSFER MECHANISM ASSEMBLY

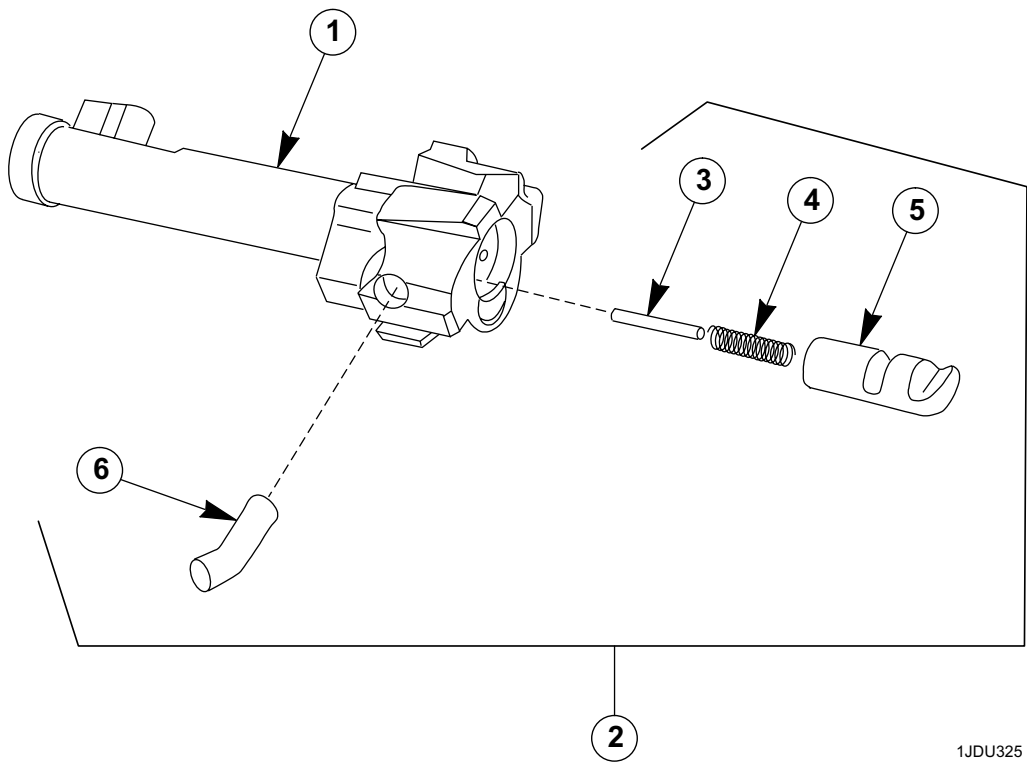
(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 0103. RETURN ROD AND TRANSFER MECHANISM ASSEMBLY 9348391	

FIG. C-4C. RETURN ROD AND TRANSFER
MECHANISM ASSEMBLY

1	XAOOO		19200	12540417	RETURN ROD ASSEMBLY.....	1
2	PAOZZ	5315-01-362-5071	19200	12556963	PIN, SPRING	2

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued



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FIG. C-4C. BOLT ASSEMBLY

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 0105. BOLT ASSEMBLY						
9348412						

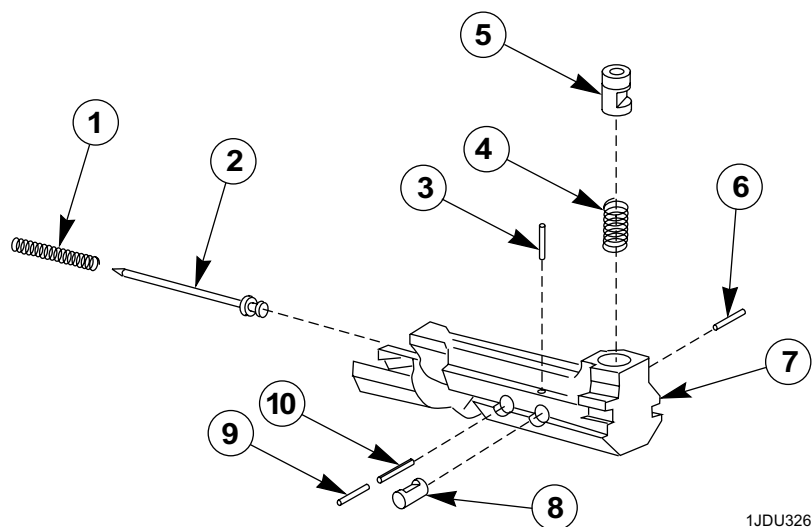
FIG. C-4C. BOLT ASSEMBLY

1	PAFZZ	1005-01-392-6194	19200	12540412	BOLT, BREECH.....	1
2	PAOZZ	1005-01-383-0168	19200	12557025	PARTS KIT, GUN EXTRACTOR.....	1
3	KFOZZ		19200	9348416	•PIN, STRAIGHT, HEADLESS.....	1
4	KFOZZ		19200	9348415	•SPRING, HELICAL, COMPRESSION.....	1
5	KFOZZ		19200	12540400	•EXTRACTOR, CARTRIDGE.....	1
6	KFOZZ		19200	9350086	•PIN, EXTRACTOR.....	1

END OF FIGURE

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SECTION II. REPAIR PARTS LIST - Continued



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FIGURE C-6. SLIDE ASSEMBLY

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 0106. SLIDE ASSEMBLY 9348391						

FIG. C-6. SLIDE ASSEMBLY

1	PAOZZ	5360-01-236-0285	19200	9350090	SPRING, HELICAL, COMPRESSION	1
2	PAFZZ	1005-01-128-5705	19200	9348395	PIN, FIRING	1
3	PAFZZ	5315-01-128-5626	19200	9348394	PIN, STRAIGHT, HEADLESS	1
4	PAFZZ	5360-01-133-8874	19200	11826046	SPRING, HELICAL, COMPRESSION	1
5	PAFZZ	3120-01-127-8980	19200	11826042	ROLLER, LINEAR-ROTAR	1
6	PAFZZ	5315-01-128-5625	19200	9348404	PIN, STRAIGHT, HEADLESS	1
7	PAFZZ	1005-01-128-5468	19200	9348392	SLIDE	1
8	PAFZZ	1005-01-128-5470	19200	9348393	PIVOT, SLIDE	1
9	PAFZZ	5315-01-128-5615	19200	9348398	PIN, RETAINING	1
10	PAFZZ	5315-01-128-5616	19200	9348397	PIN, RETAINING	1

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued

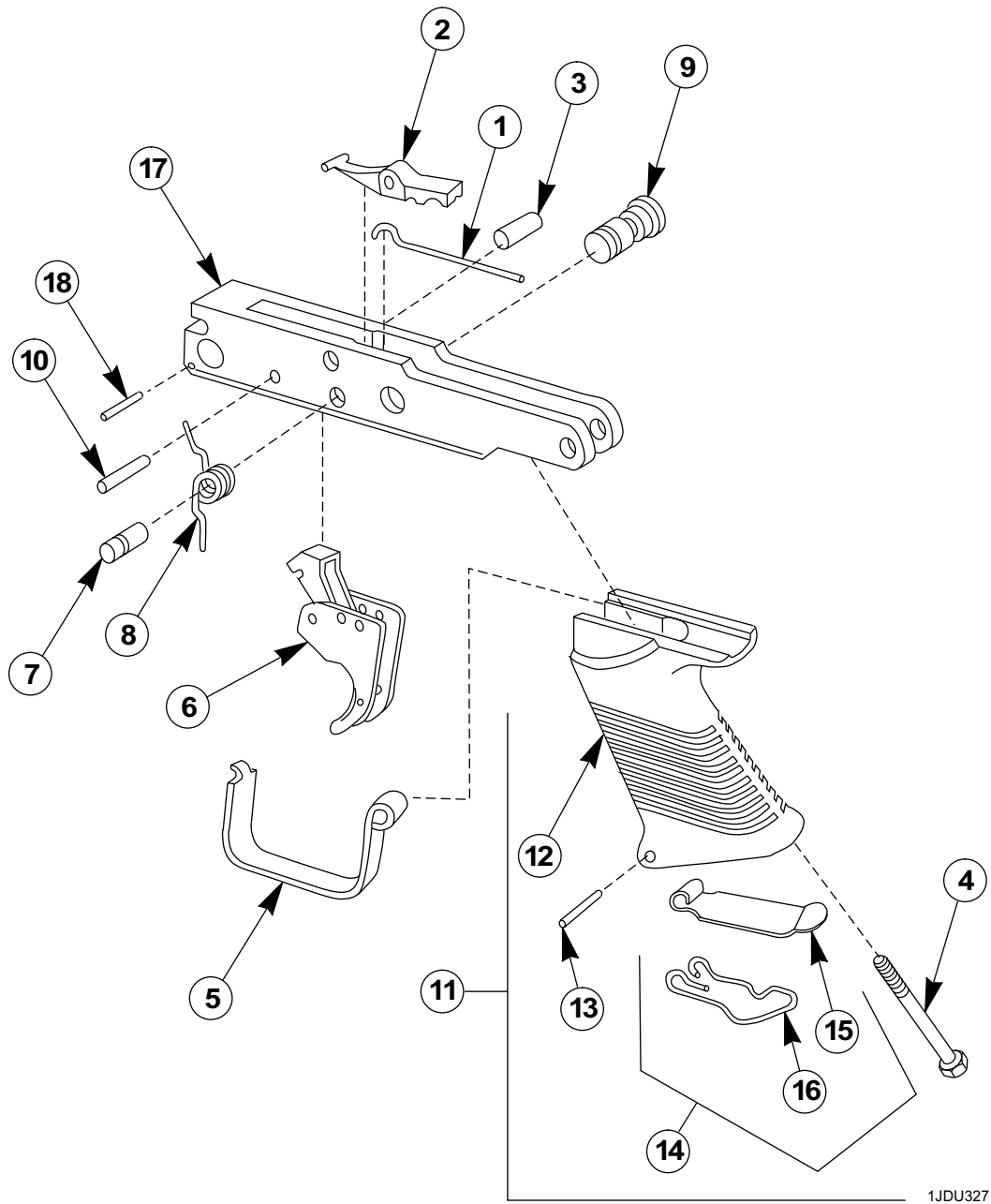


Figure C-7. Trigger Mechanism Assembly.

SECTION II. REPAIR PARTS LIST - CONTINUED

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 0108. TRIGGER MECHANISM ASSEMBLY 9348350	
					FIG. C-7. TRIGGER MECHANISM ASSEMBLY	
1	PAFZZ	5360-01-128-5490	19200	9348365	SPRING,RETAINING	1
2	PAFZZ	1005-01-128-5710	19200	9348368	SEAR	1
3	PAFZZ	5315-01-033-3890	19200	11826255	PIN,STRAIGHT,HEADLESS	1
4	PAOZZ	5306-01-128-5597	19200	9348372	BOLT,MACHINE	1
5	PAOZZ	1005-01-128-5712	19200	9348370	GUARD,TRIGGER	1
6	PAFZZ	1005-01-128-5491	19200	9348354	TRIGGER ASSEMBLY	1
7	PAFZZ	5315-01-128-5610	19200	9348367	PIN,GROOVED,HEADLESS	1
8	PAFZZ	5360-01-128-5639	19200	9348366	SPRING,HELICAL,COMPRESSION	1
9	PAFZZ	1005-01-128-5714	19200	9348364	SAFETY,SMALL ARMS	1
10	PAFZZ	5315-01-128-5621	19200	9348363	PIN,SPRING	1
11	AOOOO		19200	9350025	PISTON,GRIP ASSEMBLY (GROUP 010801)	1
12	PAOZZ	1005-01-306-9442	19200	12556995	.GRIP,PISTOL	1
13	PAOZZ	5315-01-309-7192	81349	D63477/3-102P	.PIN,SPRING	1
14	PAOZZ	1005-01-131-1911	19200	9350027	.PLATE ASSEMBLY LOCKING	1
15	XAOZZ		19200	9350028	..PLATE,BOTTOM LOCKING	1
16	XAOZZ		19200	9350029	..CLIP,CLOSURE LOCKING	1
17	PAFZZ	1005-01-128-5489	19200	9348352	FRAME,TRIGGER	1
18	PAOZZ	5315-01-135-4801	19200	9348353	PIN,SPRING	1

END OF FIGURE

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Section II. REPAIR PARTS LIST - Continued

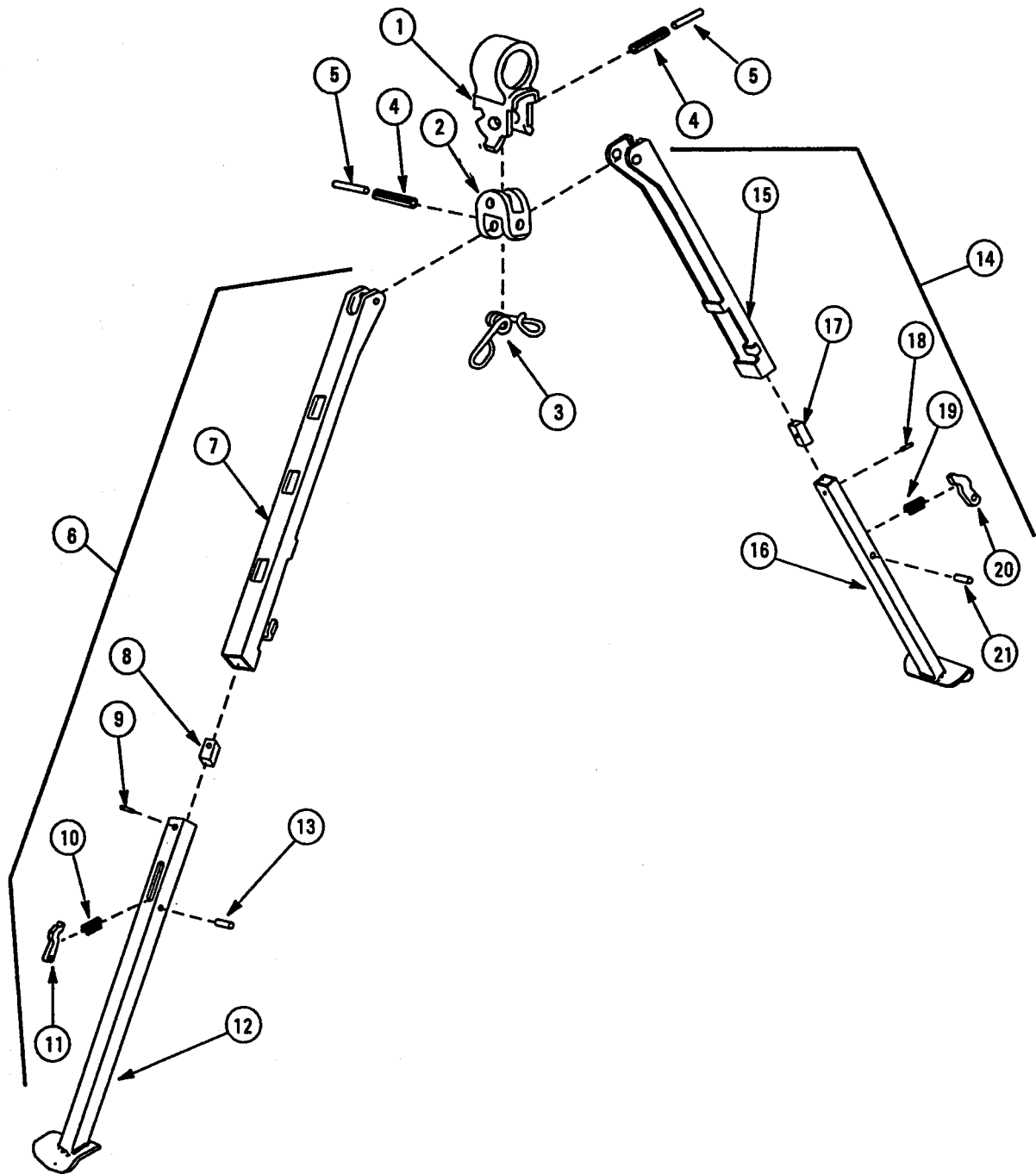


Figure C-8. Bipod Assembly, Machine Gun.

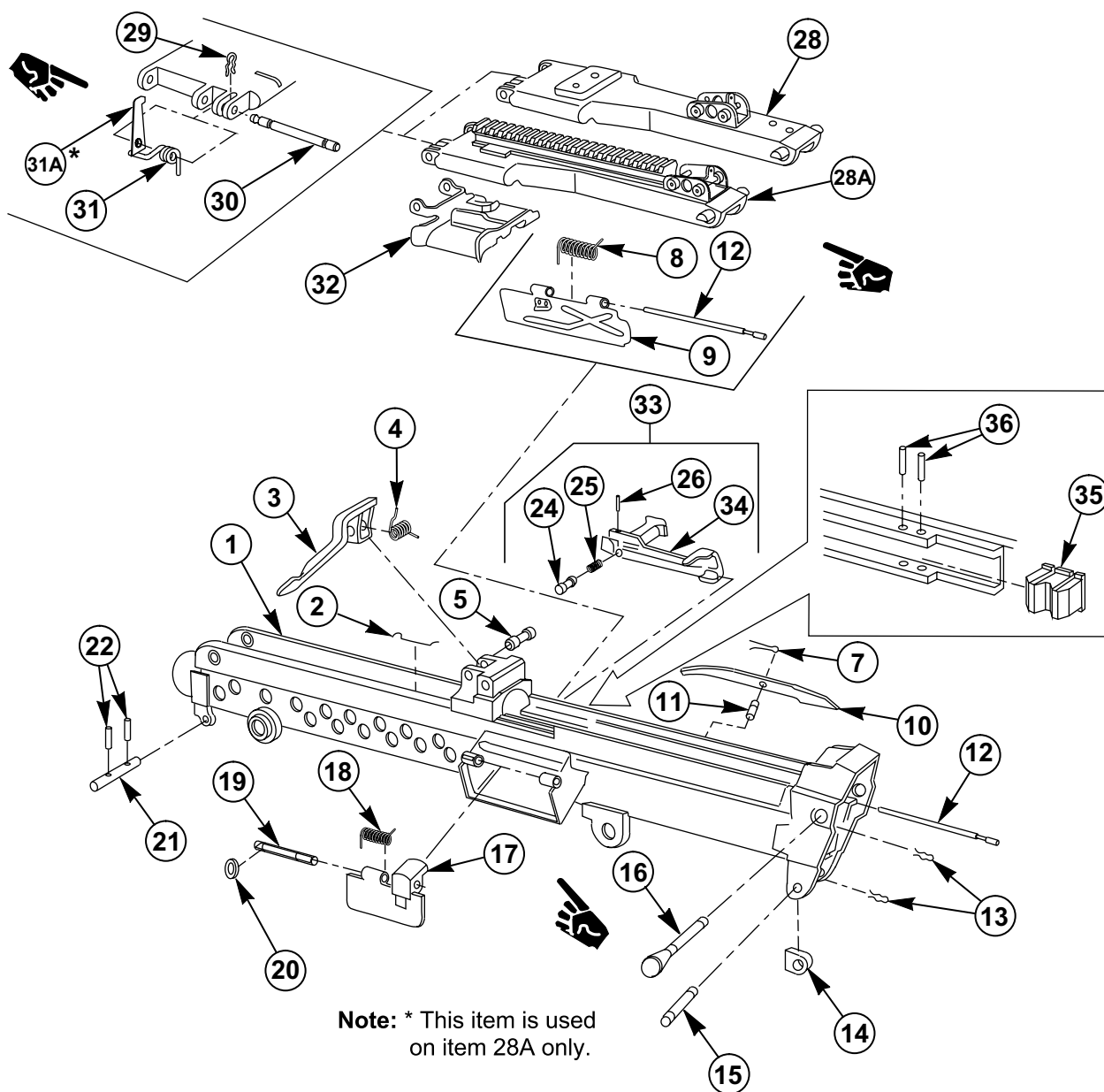
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SECTION II. REPAIR PARTS LIST - Continued

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC) GROUP 0110. BIPOD, ASSEMBLY MACHINE GUN 9348320	(7) QTY
FIG. C-8. BIPOD, ASSEMBLY MACHINE GUN						
1	XAFZZ		19200	9348321	YOKE, BIPOD.....	1
2	PAFZZ	3040-01-130-3375	19200	9348327	BRACKET, EYE.....	1
3	PAFZZ	5360-01-293-2154	19200	9350091	SPRING, HELICAL, TORSION	1
4	PAFZZ	5315-01-130-3454	19200	9348324	PIN, SPRING	2
5	PAFZZ	5315-01-130-3453	19200	9348325	PIN, SPRING	2
6	AFFFF		19200	9348328	LEG ASSEMBLY, LEFT (GROUP 011001)	1
7	PAFZZ	1005-01-130-3381	19200	9348329	•LEG, GUN MOUNT BIPOD, LEFT	1
8	PAFZZ	1005-01-130-3376	19200	9348336	•PLUG.....	1
9	PAFZZ	5315-01-130-3455	19200	9348337	•PIN, SPRING	1
10	PAFZZ	5360-01-130-3462	19200	9348334	•SPRING, HELICAL, COMPRESSION	1
11	PAFZZ	5340-01-324-9195	19200	12556972	•LEVER, LOCK RELEASE	1
12	PAFZZ	1005-01-130-3380	19200	9348330	•LEG SECTION, BIPOD, LEFT	1
13	PAFZZ	5315-01-130-3456	19200	9348335	•PIN, STRAIGHT, HEADLESS	1
14	AFFFF		19200	9348338	LEG ASSEMBLY, RIGHT (GROUP 011002).....	1
15	PAFZZ	1005-01-130-3379	19200	9348339	•LEG SECTION, BIPOD, RIGHT	1
16	PAFZZ	1005-01-130-3378	19200	9348340	•LEG SECTION, RIGHT	1
17	PAFZZ	1005-01-130-3376	19200	9348336	•PLUG.....	1
18	PAFZZ	5315-01-130-3455	19200	9348337	•PIN, SPRING	1
19	PAFZZ	5360-01-130-3462	19200	9348334	•SPRING, HELICAL, COMPRESSION	1
20	PAFZZ	5340-01-324-9195	19200	12556972	•LEVER, LOCK RELEASE	1
21	PAFZZ	5315-01-130-3456	19200	9348335	•PIN, STRAIGHT, HEADLESS	1

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued



RECEIVER ASSEMBLY

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MARINE CORPS TM 08671A-23&P/2A**

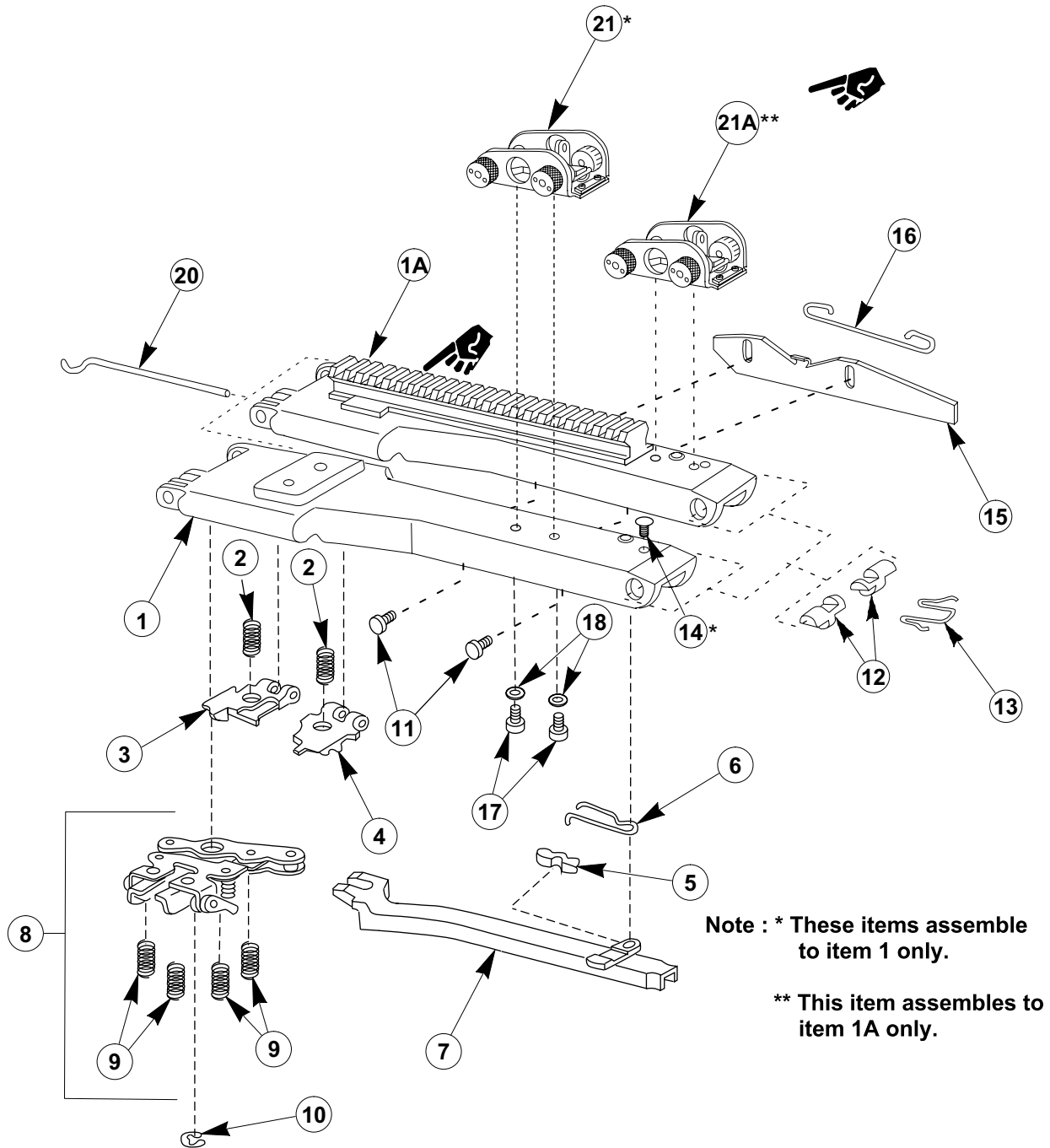
SECTION II. REPAIR PARTS LIST - Continued

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 0111. RECEIVER ASSEMBLY 9348201 (WITH NEW STYLE COCKING HANDLE ASSEMBLY STOP AND OLD STYLE COCKING HANDLE ASSEMBLY STOP PIN)	
FIG. C-9. RECEIVER ASSEMBLY						
1	XAFDA		19200	9348202	RECEIVER SUBASSEMBLY	1
2	PAFZZ	5360-01-128-5493	19200	9348216	SPRING, RETAINING	1
3	PAFZZ	1005-01-130-2128	19200	9348220	LEVER, BARREL LOCKING	1
4	PAFZZ	5360-01-128-5640	19200	9348221	SPRING, HELICAL, TORSION	1
5	PAFZZ	5315-01-128-5612	19200	9348222	PIN, GROOVED, HEADLESS	1
6					Deleted	
7	PAOZZ	5340-01-128-5605	19200	9348225	CLIP, RETAINING	1
8	PAFZZ	5360-01-128-5641	19200	9348231	SPRING, HELICAL, TORSION	1
9	PAFZZ	1005-01-236-0238	19200	9350067	COVER, EJECTION PORT OPENING	1
10	PAOZZ	1005-01-128-5721	19200	9348223	EJECTOR, CARTRIDGE	1
11	PAOZZ	5315-01-128-5494	19200	9348224	PIN, EJECTOR	1
12	PAFZZ	5315-01-128-5613	19200	9348230	PIN, GROOVED, HEADLESS	1
13	PAOZZ	5340-01-128-5607	19200	9348245	CLIP, RETAINING	2
14	PAOZZ	5340-01-128-5608	19200	9348219	CLIP, RETAINING.....	1
15	PAOZZ	5315-01-128-5601	19200	9348246	PIN, GROOVED	1
16	PAOZZ	5315-01-379-6196	19200	12540401	PIN, GROOVED, HEADED	1
17	PAFZZ	1005-01-128-5497	19200	9348232	COVER, MAGAZINE.....	1
18	PAFZZ	5360-01-128-5643	19200	9348233	SPRING, HELICAL, TORSION	1
19	PAFZZ	5315-01-128-5614	19200	9348234	PIN, GROOVED, HEADLESS	1
20	PAFZZ	5340-01-128-5606	19200	9348235	CLIP, RETAINING	1
21	PAOZZ	5315-01-131-2058	19200	9348217	PIN, RETAINING FRONT	1
22	PAOZZ	5315-01-131-2060	19200	9348218	PIN, SPRING	2
23					Deleted	
24	PAFZZ	5340-01-128-5742	19200	9348239	•PLUNGER, DETENT	1
25	PAFZZ	5360-01-128-5642	19200	9348238	•SPRING, HELICAL, COMPRESSION	1
26	PAFZZ	5315-01-128-5622	19200	9348240	•PIN, SPRING	1
27					Deleted	
28	AFOFF		19200	9348250	*COVER AND FEED MECHANISM ASSEMBLY (GROUP 011101).....	1
28A	AFOFF		19200	12556985	COVER AND FEED MECHANISM ASSEMBLY (NEW)	1
29	PAOZZ	5340-01-128-5602	19200	9348314	CLIP RETAINING	1
30	PAOZZ	5315-01-129-3050	19200	9348312	PIN, SHOULDER, HEADLESS	1
31	PAOZZ	5360-01-463-1009	19200	12556983	SPRING, HELICAL,TORSION	1
31A	PAOZZ	3040-21-907-6341	19200	12556984	COVER, CATCH	1
32	PAOZZ	1005-01-128-5472	19200	9348308	FEED TRAY ASSEMBLY	1
33	PAFFF	1005-01-423-8813	19200	12540403	COCKING HANDLE ASSEMBLY (USED ON RECEIVER WITH NEW STYLE COCKING HANDLE ASSEMBLY STOP) (GROUP 011102).....	1
34	XAFZZ		19200	12540404	•BODY, COCKING HANDLE	1
35	PAFZZ	5340-01-324-9189	19200	12556980	STOP, MECHANICAL (USED ON RECEIVER WITH NEW STYLE COCKING HANDLE ASSEMBLY STOP).....	1
36	PAFZZ	5315-00-690-0544	96906	MS39086- 93	COCKING HANDLE ASSEMBLY STOP)	2

END OF FIGURE

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SECTION II. REPAIR PARTS LIST - Continued



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SECTION II. REPAIR PARTS LIST - Continued

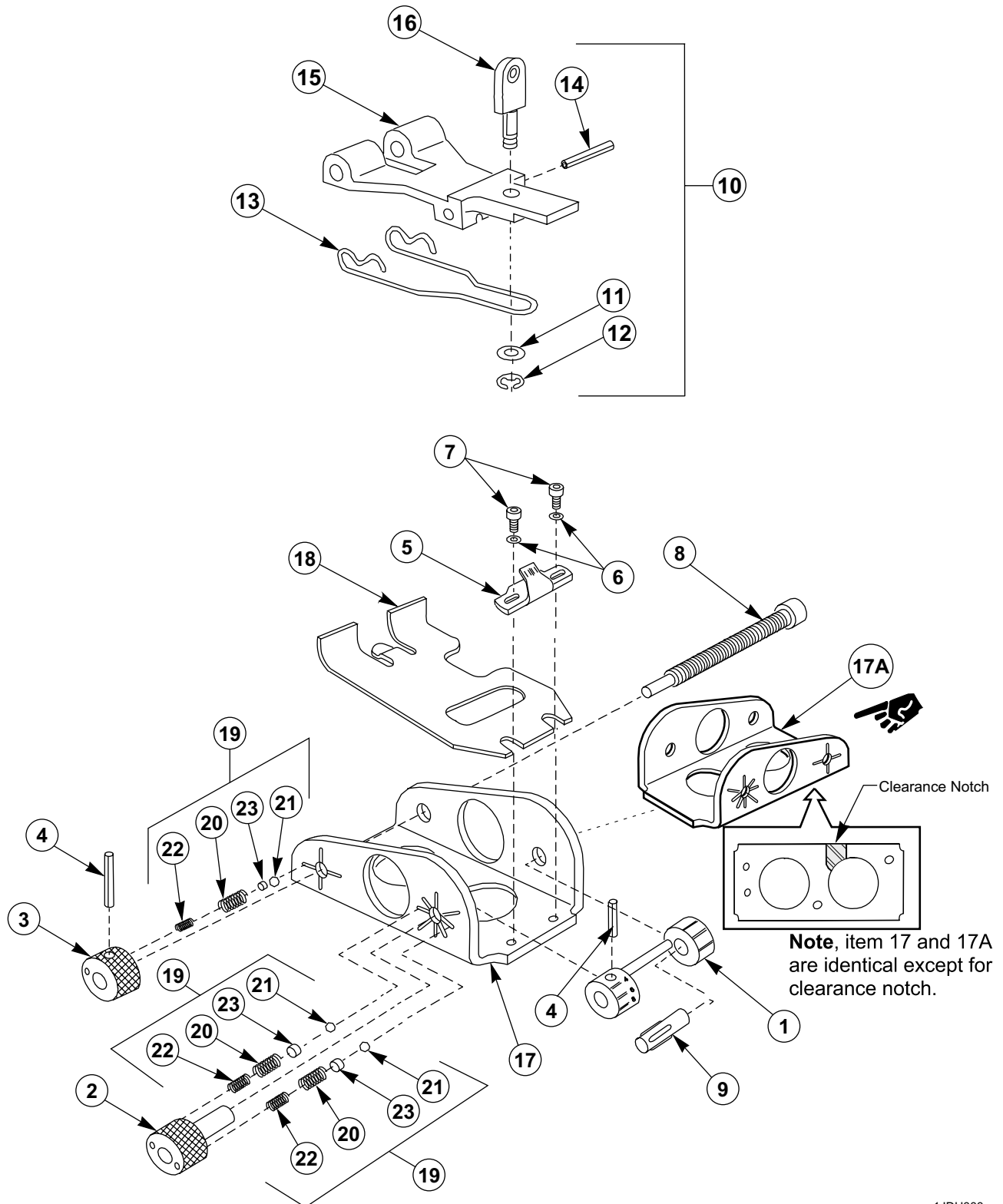
(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
					GROUP 011101. COVER AND FEED MECHANISM ASSEMBLY 12556985	
					FIG. C-10. COVER AND FEED MECHANISM ASSEMBLY	
1A	PAFZZ	1005-01-463-1008	19200	12556986	COVER, RAIL ASSEMBLY	1
1	PAFZZ	5340-01-381-1924	19200	12557022	*COVER ASSEMBLY	1
2	PAFZZ	5360-01-128-5636	19200	9348296	SPRING, HELICAL, COMPRESSION	2
3	PAFZZ	1005-01-128-5475	19200	9348294	PAWL, CARTRIDGE, RETAINING, FRONT	1
4	PAFZZ	1005-01-128-5476	19200	9348295	PAWL, CARTRIDGE, RETAINING, REAR	1
5	PAFZZ	5315-01-033-8872	19200	11826202	PIN, LOCK	1
6	PAFZZ	5360-01-128-5474	19200	9348300	SPRING, RETAINING	1
7	PAFZZ	1005-01-128-5473	19200	9348299	LEVER, FEED	1
8	PAFFF	1005-01-128-5477	19200	9348278	FEED PAWL ASSEMBLY (GROUP 01110101)	1
9	PAFZZ	5360-01-128-5637	19200	9348287	•SPRING, HELICAL COMPRESSION	4
10	PAFZZ	5365-01-134-6818	19200	9348291	RING, RETAINING	1
11	PAFZZ	5315-01-128-5618	19200	9348303	PIN, RETAINING	2
12	PAFZZ	1005-01-128-5482	19200	9348305	LATCH, COVER	2
13	PAFZZ	5340-01-128-5604	19200	9348306	CLIP, RETAINING	1
14	PAOZZ	1005-01-128-5483	19200	9348307	PLUG, SCOPE ADAPTER	1
15	PAFZZ	1005-01-128-5480	19200	9348302	COVER, COCKING CHANNEL	1
16	PAFZZ	5360-01-128-5481	19200	9348304	SPRING, RETAINING	1
17	PAFZZ	5305-01-132-0439	19200	9350023	SCREW, MACHINE	2
18	PAFZZ	5310-01-131-2084	19200	9350022	WASHER, FLAT	2
19					Deleted	
20	PAFZZ	5315-01-128-5617	19200	9348298	PIN, RETAINING	1
21	PAFFF	1005-01-361-6140	19200	12556970	SIGHT, REAR, ASSEMBLY (GROUP 01110102)	1
21A	PAFFF	1005-01-461-0328	19200	12556988	SIGHT, REAR, ASSEMBLY (CLEARANCE NOTCH).....	1

END OF FIGURE

FIGURE C-11 WAS DELETED.

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SECTION II. REPAIR PARTS LIST - Continued



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SECTION II. REPAIR PARTS LIST - Continued

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 01110102. SIGHT, REAR ASSEMBLY 12556988						
FIG. C-11A. SIGHT, REAR						
1	PAFZZ	1005-01-131-1902	19200	9350011	ELEVATOR ASSEMBLY	1
2	PAFZZ	5355-01-131-1901	19200	9350015	KNOB ELEVATION	1
3	PAFZZ	5355-01-131-1899	19200	9350007	KNOB, WINDAGE	1
4	PAFZZ	5315-01-128-5622	19200	9348240	PIN, SPRING	2
5	PAFZZ	1005-01-326-7291	19200	12556978	SCALE, WINDAGE	1
6	PAFZZ	5310-01-131-2089	19200	9350020	WASHER, LOCKING	2
7	PAFZZ	5305-01-326-3791	19200	12556979	SCREW, MACHINE	2
8	PAFZZ	5305-01-131-2076	19200	9350006	SCREW, MACHINE	1
9	PAFZZ	1005-01-131-1903	19200	9350018	SHAFT, ELEVATOR PIVOT	1
10	PAFFF	1005-01-131-1905	19200	9349999	SIGHT, REAR LEAF ASSEMBLY(GROUP 0111010201)	1
11	PAFZZ	5310-01-131-1907	19200	9350002	•WASHER, LEAF	1
12	PAFZZ	5340-01-128-5606	19200	9348235	•CLIP, RETAINING	1
13	PAFZZ	5315-01-131-1909	19200	9350004	•SPRING, LOCK	1
14	PAFZZ	5315-01-128-5622	19200	9348240	•PIN, SPRING	1
15	XAFZZ		19200	9350000	•LEAF	1
16	PAFZZ	1005-01-131-1908	19200	9350001	•SIGHT, PEEP	1
17	XAFZZ		19200	9349998	*BASE, REAR SIGHT	1
17A	XAFZZ		19200	12556989	BASE, REAR SIGHT	1
18	PAFZZ	9535-01-326-5390	19200	12556975	PLATE, METAL	1
19	PAFZZ	1005-01-327-4583	19200	12557030	PARTS KIT, GUN	3
20	KFFZZ	5360-01-225-8558	19200	9350088	•SPRING, HELICAL, COMPRESSION	1
21	KFFZZ		96906	MS19060-505	•BALL, BEARING	1
22	KFFZZ		19200	12556977	•SPRING, HELICAL, COMPRESSION	1
23	KFFZZ		19200	12556976	•PLUNGER, INDEXING	1

END OF FIGURE

FIGURES C-12 and C-12A WERE DELETED.

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SECTION II. REPAIR PARTS LIST - Continued

FIGURE C-12. Not Used.

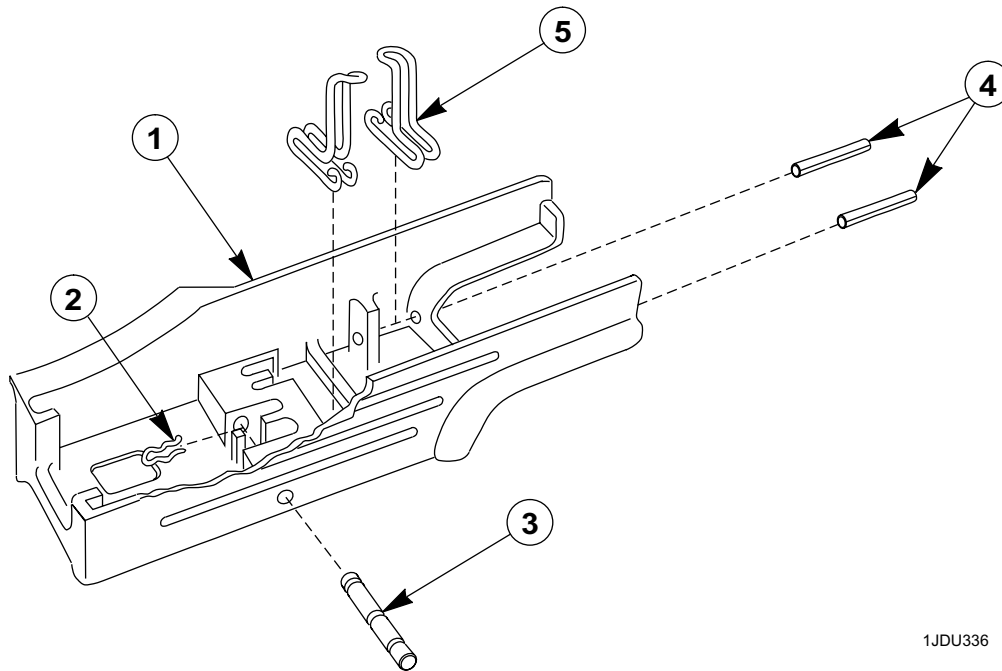
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SECTION II. REPAIR PARTS LIST - Continued

FIGURE C-12A. Not Used.

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SECTION II. REPAIR PARTS LIST - Continued



1JDU336

FIGURE C-12B. GUARD, HAND, GUN ASSEMBLY (NEW STYLE)

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 0112. GUARD, HAND, GUN ASSEMBLY (NEW STYLE) 12556973						

**FIG. C-12B. GUARD, HAND, GUN ASSEMBLY
(NEW STYLE)**

1	XAOZZ		19200	12556974	BODY, HAND, GUARD	1
2	PAOZZ	5340-01-128-5602	19200	9348314	CLIP, RETAINING	1
3	PAOZZ	5315-01-325-1721	19200	12556971	PIN, GROOVED. HEADLESS	1
4	PAOZZ	5315-01-131-2059	19200	9348461	PIN, RETAINING	2
5	PAOZZ	5340-01-131-2056	19200	9348460	CLIP, RETAINING	2

END OF FIGURE

SECTION II. REPAIR PARTS LIST – Continued

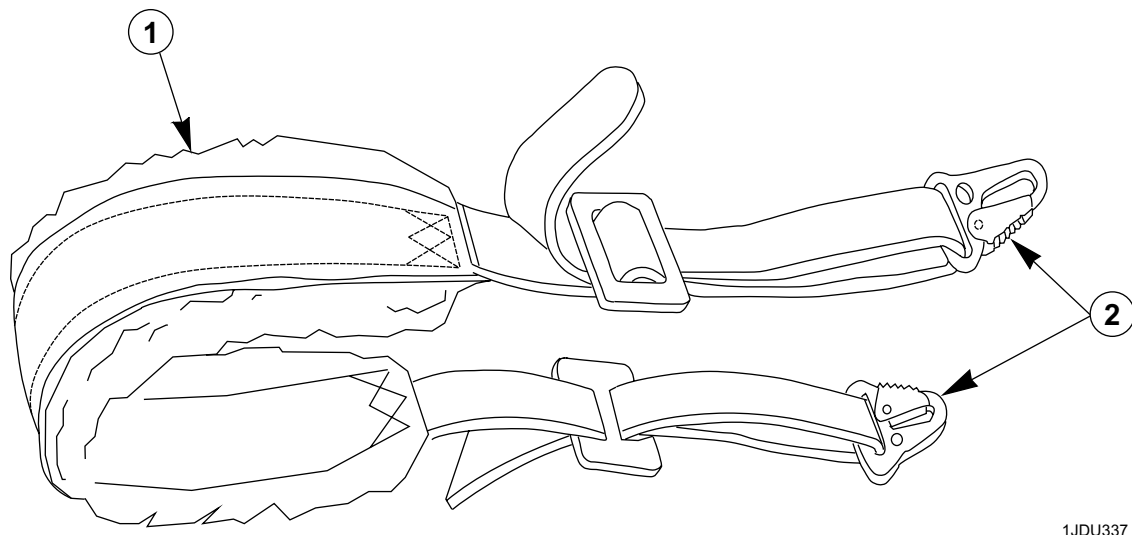
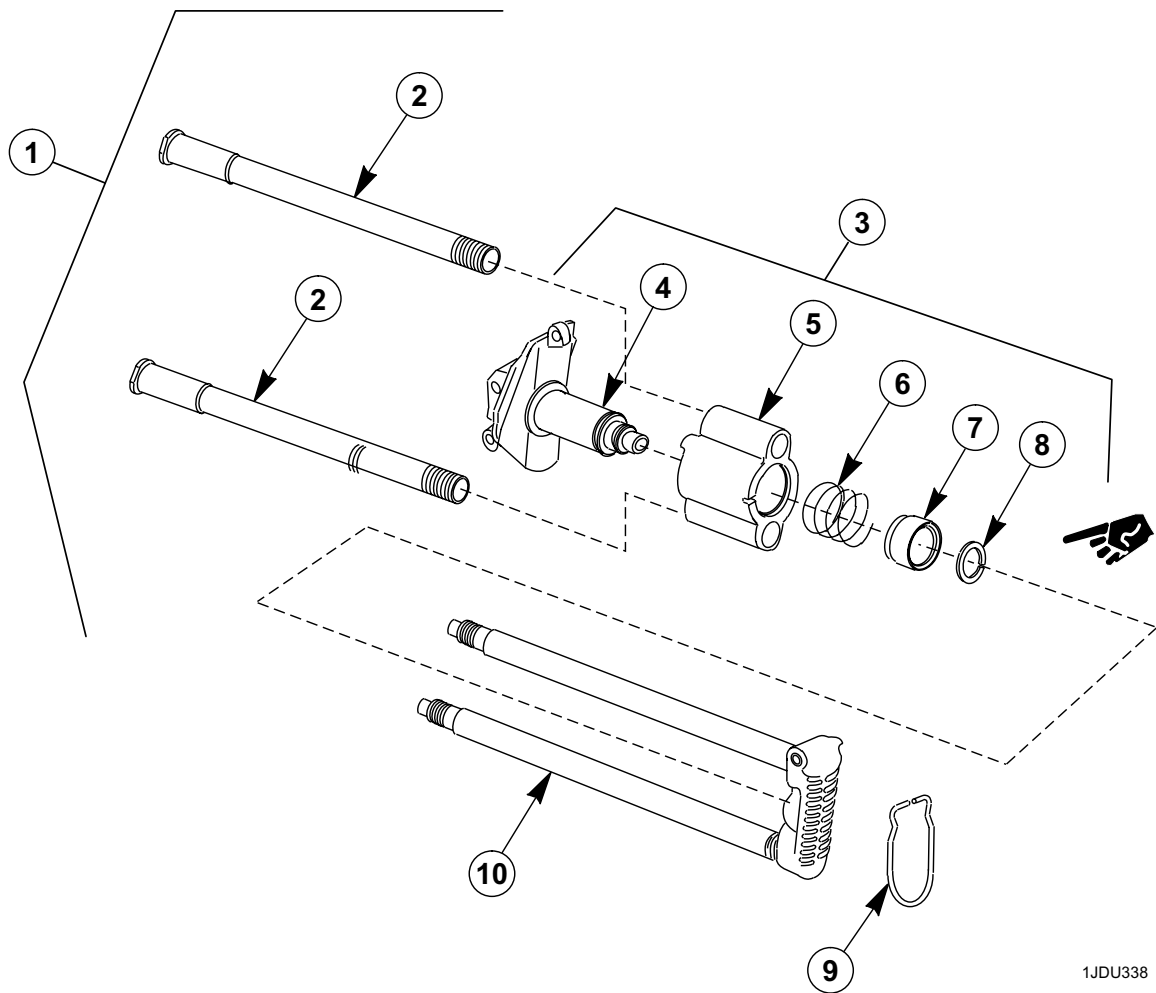


FIGURE C-13. SLING AND SNAP HOOK ASSEMBLY

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 02. SLING AND SNAP HOOK ASSEMBLY 9348467						
FIG. C-13. SLING AND SNAP HOOK ASSEMBLY						
1	PAOZZ	1005-00-312-7177	19204	12002983	SLING, SMALL ARMS	1
2	PAOZZ	5340-01-158-0134	19200	9348468	HOOK, SNAP	2

END OF FIGURE

SECTION II. REPAIR PARTS LIST – Continued



1JDU338

FIGURE C-14. STOCK, GUN, SHOULDER: M5.

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
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GROUP 03. STOCK, GUN, SHOULDER: M5
12956141

FIG. C-14. STOCK, GUN, SHOULDER: M5

1	PACFF	1005-01-411-1264	19200	12956141	STOCK GUN, SHOULDER: M5	1
2	PAFZZ	9330-01-396-4042	19200	12956152	TUBE	2
3	AFFFF		19200	12956149	BUFFER AND BODY ASSEMBLY	1
4	PAFZZ	1005-01-396-4038	19200	12956142	BUFFER AND BACKPLATE ASSEMBLY	1
5	PAFZZ	1005-01-396-4041	19200	12956143	BODY, BUTTSTOCK ASSEMBLY	1
6	PAFZZ	5360-01-396-7880	19200	12956147	SPRING, HELICAL	1
7	PAFZZ	5365-01-396-4043	19200	12956146	SPACER, SLEEVE	1
8	PAFZZ	5325-01-270-3431	19200	MS16624-3125	RING, RETAINING.....	1
9	PAOZZ	1005-01-396-4040	19200	12956153	STOCK EXTENSION, GUN	1
10	PAFZZ	1005-01-396-4039	19200	12956154	BUTTPLATE ASSEMBLY	1

END OF FIGURE

SECTION II. REPAIR PARTS LIST - Continued

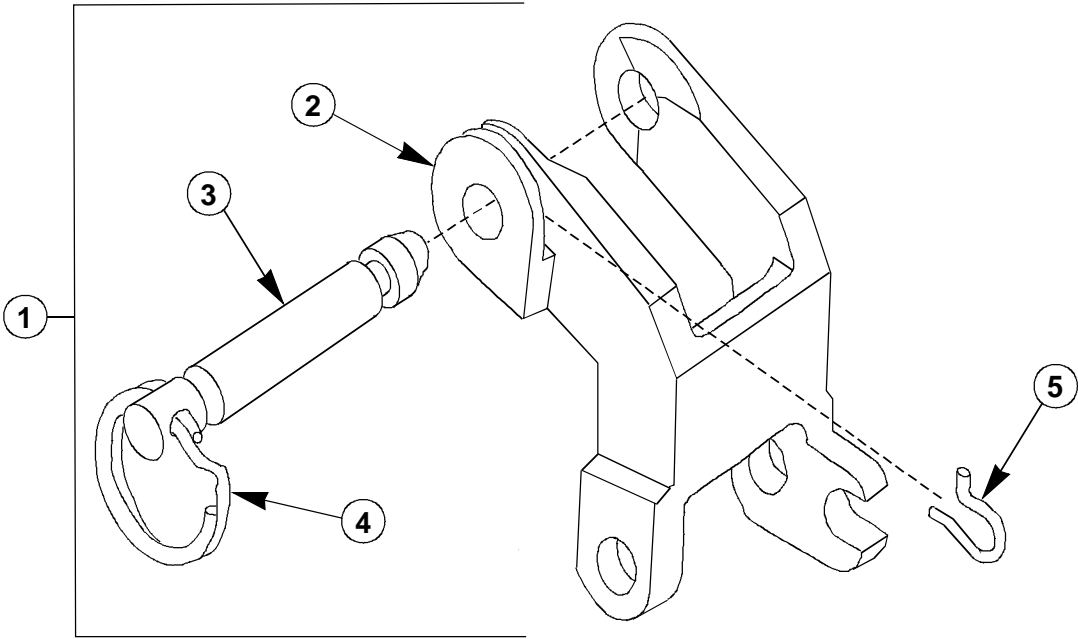


FIGURE C-14A. ADAPTER ASSEMBLY, TRIPOD

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 04. ADAPTER ASSEMBLY, TRIPOD 9378233						
FIG. C-14A. ADAPTER ASSEMBLY, TRIPOD						
1	PAOOO	1005-01-225-1156	19200	9378233	ADAPTER ASSEMBLY, TRIPOD	1
2	XAOZZ		19200	9378232	•FORK TRIPOD	1
3	PAOZZ	5315-01-225-8635	19200	9378228	•PIN, GROOVED, HEADLESS	1
4	PAOZZ	1005-01-223-2892	19200	9378229	•RING, PULL	1
5	PAOZZ	5340-01-225-8545	19200	9378231	•CLIP, RETAINING	1

END OF FIGURE

Section III. SPECIAL TOOLS LIST

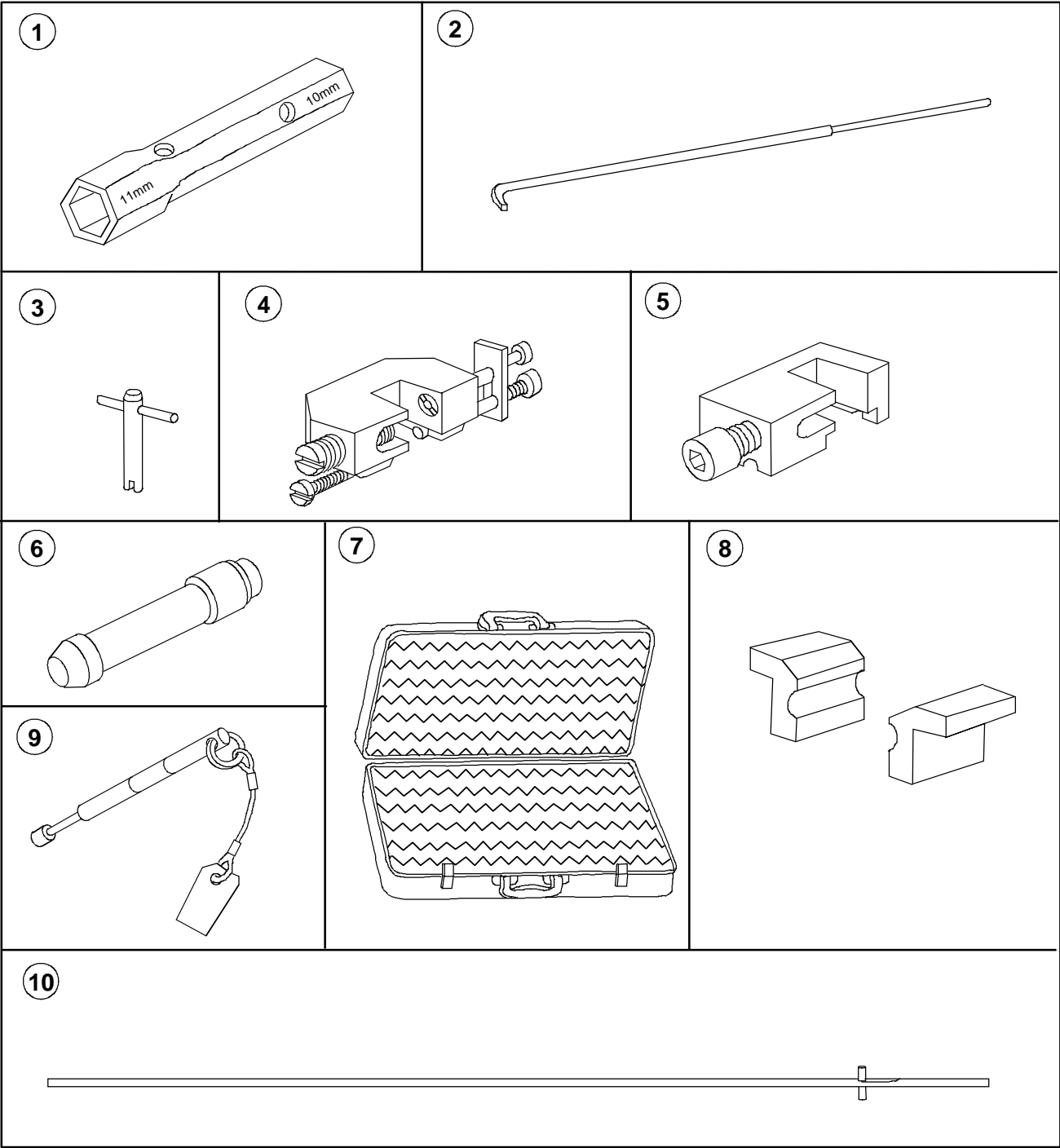


Figure C-15. Special Tools.

SECTION III. SPECIAL TOOLS LIST

(1) ITEM NO.	(2) SMR CODE	(3) NATIONAL STOCK NUMBER	(4) CAGEC	(5) PART NUMBER	(6) DESCRIPTION AND USABLE ON CODES (UOC)	(7) QTY
GROUP 9500. SPECIAL TOOLS						
FIG. C-15. SPECIAL TOOLS						
1	PAOZZ	1005-01-141-3826	19200	9350031	BOX, SPANNER BOI: ONE AUTHORIZED PER 15 END ITEMS	
2	PAFZZ	5120-01-143-9317	19200	9348248	TOOL, COMBINATION BOI: TWO AUTHORIZED PER DS UNIT	
3	PAOZZ	5120-01-141-3839	19200	9350033	WRENCH, SPANNER FRONT SIGHT POST BOI: ONE AUTHORIZED PER 15 END ITEMS	
4	PAFZZ	5120-01-141-4612	19200	9350034	TOOL, ADJUSTING, FRONT SIGHT BOI: TWO AUTHORIZED PER DS UNIT	
5	PAFZZ	1005-01-315-5229	19200	12540422	TOOL, ASSEMBLY, FRONT SIGHT BOI: TWO AUTHORIZED PER DS UNIT	
6	PAFZZ	1005-01-141-3830	19200	9350102	GAGE, HEADSPACE BOI: TWO AUTHORIZED PER DS UNIT	
7	PAFZZ	1005-01-158-2226	19200	9362860	CASE, ACCESSORY BOI: TWO AUTHORIZED PER DS UNIT	
8	PAOZZ	4933-00-070-9151	19204	11010032	FIXTURE, BARREL BOI: ONE AUTHORIZED PER ORGANIZATIONAL UNIT	
9	PAFZZ	5210-01-259-3454	19200	9350096	CAGE, BREECH BORE BARREL EROSION BOI: TWO AUTHORIZED PER DS UNIT	
10	PAFZZ	5220-01-141-4732	19200	9350104	GAGE, FIRING PIN PROTRUSION BOI: TWO AUTHORIZED PER DS UNIT	
END OF FIGURE						

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SECTION IV. CROSS REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
4933-00-070-9151	C-15	8	5315-01-128-5615	C-6	9
5360-00-078-0122	C-3	19	5315-01-128-5616	C-6	10
1005-00-312-7177	C-13	1	5315-01-128-5617	C-10	20
5315-00-690-0544	C-9	36	5315-01-128-5618	C-10	11
5315-01-033-3890	C-7	3	5315-01-128-5621	C-7	10
5315-01-033-8872	C-10	5	5315-01-128-5622	C-9	26
1005-01-036-7160	C-3	14		C-11A	4
1005-01-127-7510	C-1	1		C-11A	14
3120-01-127-8980	C-6	5	5315-01-128-5625	C-6	6
1005-01-128-5464	C-3	9	5315-01-128-5626	C-6	3
1005-01-128-5465	C-3	4	5360-01-128-5632	C-2	7
1005-01-128-5466	C-3	3	5360-01-128-5636	C-10	2
1005-01-128-5468	C-6	7	5360-01-128-5637	C-10	9
1005-01-128-5470	C-6	8	5360-01-128-5639	C-7	8
1005-01-128-5472	C-9	32	5360-01-128-5640	C-9	4
1005-01-128-5473	C-10	7	5360-01-128-5641	C-9	8
5360-01-128-5474	C-10	6	5360-01-128-5642	C-9	25
1005-01-128-5475	C-10	3	5360-01-128-5643	C-9	18
1005-01-128-5476	C-10	4	5310-01-128-5651	C-3	8
1005-01-128-5477	C-10	8	5310-01-128-5676	C-3	7
1005-01-128-5480	C-10	15	1005-01-128-5705	C-6	2
5360-01-128-5481	C-10	16	1005-01-128-5710	C-7	2
1005-01-128-5482	C-10	12	1005-01-128-5712	C-7	5
1005-01-128-5483	C-10	14	1005-01-128-5714	C-7	9
1005-01-128-5489	C-7	17	1005-01-128-5721	C-9	10
5360-01-128-5490	C-7	1	5340-01-128-5742	C-9	24
1005-01-128-5491	C-7	6	5315-01-129-3050	C-9	30
1005-01-128-5492	C-2	9	1005-01-130-2128	C-9	3
5360-01-128-5493	C-9	2	3040-01-130-3375	C-8	2
5315-01-128-5494	C-9	11	1005-01-130-3376	C-8	8
1005-01-128-5497	C-9	17		C-8	17
5306-01-128-5597	C-7	4	1005-01-130-3378	C-8	16
5315-01-128-5601	C-9	15	1005-01-130-3379	C-8	15
5340-01-128-5602	C-9	29			
	C-12B	2			
5340-01-128-5604	C-10	13			
5340-01-128-5605	C-9	7			
5340-01-128-5606	C-9	20			
	C-11A	12			
5340-01-128-5607	C-9	13			
5340-01-128-5608	C-9	14			
5315-01-128-5610	C-7	7			
5315-01-128-5612	C-9	5			
5315-01-128-5613	C-9	12			
5315-01-128-5614	C-9	19			

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SECTION IV. CROSS REFERENCE INDEXES

NATIONAL STOCK NUMBER INDEX (Cont)

STOCK NUMBER	FIG	ITEM	STOCK NUMBER	FIG	ITEM
1005-01-130-3380	C-8	12	1005-01-211-8368	C-3	5
1005-01-130-3381	C-8	7	5315-01-211-8392	C-3	2
5315-01-130-3453	C-8	5	5360-01-225-8558	C-11A	20
5315-01-130-3454	C-8	4	1005-01-236-0238	C-9	9
5315-01-130-3455	C-8	9	5360-01-236-0285	C-6	1
	C-8	18	1005-01-249-0184	C-2	13
5315-01-130-3456	C-8	13	1005-01-254-9801	C-2	3
	C-8	21	5210-01-259-3454	C-15	9
5360-01-130-3462	C-8	10	5325-01-270-3431	C-14	8
	C-8	19	1005-01-274-5102	C-4	6
1005-01-130-3506	C-2	10	1005-01-274-6345	C-4	4
5355-01-131-1899	C-11A	3			
5355-01-131-1901	C-11A	2	1005-01-278-6898	C-4	2
1005-01-131-1902	C-11A	1	5305-01-280-9759	C-4	3
1005-01-131-1903	C-11A	9	5310-01-284-8541	C-3	13
1005-01-131-1905	C-11A	10	5360-01-293-2154	C-8	3
5310-01-131-1907	C-11A	11	3120-01-299-4159	C-3	18
1005-01-131-1908	C-11A	16	5315-01-299-4164	C-3	15
5315-01-131-1909	C-11A	13	1005-01-299-4657	C-3	16
1005-01-131-1911	C-7	14	5340-01-301-8218	C-3	17
5340-01-131-2056	C-12B	5	1005-01-306-2700	C-4	1
5315-01-131-2058	C-9	21	1005-01-306-9442	C-7	12
5315-01-131-2059	C-12B	4	5315-01-309-7192	C-7	13
5315-01-131-2060	C-9	22	1005-01-315-5229	C-15	5
5305-01-131-2076	C-11A	8	5340-01-324-9189	C-9	35
5310-01-131-2084	C-10	18	1005-01-324-9191	C-2	12
5310-01-131-2089	C-11A	6	5340-01-324-9195	C-8	11
5305-01-132-0439	C-10	17		C-8	20
5360-01-133-8874	C-6	4	5315-01-325-1721	C-12B	3
1005-01-134-3633	C-3	12	5305-01-326-3791	C-11A	7
1005-01-134-6737	C-2	4	9535-01-326-5390	C-11A	18
5365-01-134-6818	C-10	10	1005-01-326-7291	C-11A	5
1005-01-135-4765	C-3	6	1005-01-327-4583	C-11A	19
5315-01-135-4801	C-7	18	1005-01-361-6140	C-10	21
1005-01-141-3826	C-15	1	5315-01-362-5071	C-4C	2
1005-01-141-3830	C-15	6	5315-01-379-6196	C-9	16
5120-01-141-3839	C-15	3	5340-01-381-1924	C-10	1
5120-01-141-4612	C-15	4	1005-01-383-0168	C-5	2
5220-01-141-4732	C-15	10	1005-01-387-8516	C-2	1
5120-01-143-9317	C-15	2	1005-01-392-6194	C-5	1
5340-01-158-0134	C-13	2			
1005-01-158-2226	C-15	7			

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NATIONAL STOCK NUMBER INDEX (Cont)

STOCK NUMBER	FIG	ITEM
1005-01-396-4038	C-14	4
1005-01-396-4039	C-14	10
1005-01-396-4040	C-14	9
1005-01-396-4041	C-14	5
9330-01-396-4042	C-14	2
5365-01-396-4043	C-14	7
5360-01-396-7880	C-14	6
1005-01-411-1264	C-14	1
1005-01-423-8813	C-9	33
5305-01-452-9638	C-4	5
1005-01-461-0328	C-10	21A
1005-01-463-1008	C-10	1A
5360-01-463-1009	C-9	31
1005-01-470-5046	C-2	1
3040-21-907-6341	C-9	31A

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PART NUMBER INDEX

CAGEC	PART NUMBER	STOCK NUMBER	FIG	ITEM
81349	D63477/3-102P	5315-01-309-7192	C-7	13
19200	MS16624-3125	5325-01-270-3431	C-14	8
96906	MS19060-505		C-11A	21
96906	MS24585C279	5360-00-078-0122	C-3	19
96906	MS39086-93	5315-00-690-0544	C-9	36
19204	11010032	4933-00-070-9151	C-15	8
19200	11825992	1005-01-036-7160	C-3	14
19200	11826042	3120-01-127-8980	C-6	5
19200	11826046	5360-01-133-8874	C-6	4
19200	11826202	5315-01-033-8872	C-10	5
19200	11826255	5315-01-033-3890	C-7	3
19204	12002983	1005-00-312-7177	C-13	1
19200	12011985		C-3	1
19200	12011986	1005-01-470-5046	C-2	1
19200	12540400		C-5	5
19200	12540401	5315-01-379-6196	C-9	16
19200	12540403	1005-01-423-8813	C-9	33
19200	12540404		C-9	34
19200	12540405	1005-01-249-0184	C-2	13
19200	12540412	1005-01-392-6194	C-5	1
19200	12540416	1005-01-254-9801	C-2	3
19200	12540417		C-4C	1
19200	12540422	1005-01-315-5229	C-15	5
19200	12556935		C-2	2
19200	12556936	5305-01-452-9638	C-4	5
19200	12556938	5305-01-280-9759	C-4	3
19200	12556939	1005-01-278-6898	C-4	2
19200	12556940	1005-01-274-6345	C-4	4
19200	12556951	1005-01-306-2700	C-4	1
19200	12556957	1005-01-387-8516	C-2	1
19200	12556963	5315-01-362-5071	C-4C	2
19200	12556970	1005-01-361-6140	C-10	21
19200	12556971	5315-01-325-1721	C-12B	3
19200	12556972	5340-01-324-9195	C-8	11
			C-8	20
19200	12556973	1005-01-324-9191	C-2	12
19200	12556974		C-12B	1
19200	12556975	9535-01-326-5390	C-11A	18
19200	12556976		C-11A	23
19200	12556977		C-11A	22
19200	12556978	1005-01-326-7291	C-11A	5
19200	12556979	5305-01-326-3791	C-11A	7
19200	12556980	5340-01-324-9189	C-9	35
19200	12556983	5360-01-463-1009	C-9	31
19200	12556984	3040-21-907-6341	C-9	31A
19200	12556985		C-9	28A
19200	12556986	1005-01-463-1008	C-10	1A
19200	12556988	1005-01-461-0328	C-10	21A
19200	12556989		C-11A	17A

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PART NUMBER INDEX (Cont)

CAGEC	PART NUMBER	STOCK NUMBER	FIG	ITEM
19200	12556995	1005-01-306-9442	C-7	12
19200	12557001		C-3	20
19200	12557006	5310-01-284-8541	C-3	13
19200	12557008	5340-01-301-8218	C-3	17
19200	12557009	3120-01-299-4159	C-3	18
19200	12557012	5315-01-299-4164	C-3	15
19200	12557020	1005-01-299-4657	C-3	16
19200	12557022	5340-01-381-1924	C-10	1
19200	12557025	1005-01-383-0168	C-5	2
19200	12956141	1005-01-411-1264	C-14	1
19200	12956142	1005-01-396-4038	C-14	4
19200	12956143	1005-01-396-4041	C-14	5
19200	12956146	5365-01-396-4043	C-14	7
19200	12956147	5360-01-396-7880	C-14	6
19200	12956149		C-14	3
19200	12956152	9330-01-396-4042	C-14	2
19200	12956153	1005-01-396-4040	C-14	9
19200	12956154	1005-01-396-4039	C-14	10
19200	9348199	1005-01-127-7510	C-1	1
19200	9348200		C-1	2
19200	9348201		C-2	11
19200	9348202		C-9	1
19200	9348216	5360-01-128-5493	C-9	2
19200	9348217	5315-01-131-2058	C-9	21
19200	9348218	5315-01-131-2060	C-9	22
19200	9348219	5340-01-128-5608	C-9	14
19200	9348220	1005-01-130-2128	C-9	3
19200	9348221	5360-01-128-5640	C-9	4
19200	9348222	5315-01-128-5612	C-9	5
19200	9348223	1005-01-128-5721	C-9	10
19200	9348224	5315-01-128-5494	C-9	11
19200	9348225	5340-01-128-5605	C-9	7
19200	9348230	5315-01-128-5613	C-9	12
19200	9348231	5360-01-128-5641	C-9	8
19200	9348232	1005-01-128-5497	C-9	17
19200	9348233	5360-01-128-5643	C-9	18
19200	9348234	5315-01-128-5614	C-9	19
19200	9348235	5340-01-128-5606	C-9	20
			C-11A	12
19200	9348238	5360-01-128-5642	C-9	25
19200	9348239	5340-01-128-5742	C-9	24
19200	9348240	5315-01-128-5622	C-9	26
			C-11A	4
			C-11A	14
19200	9348245	5340-01-128-5607	C-9	13
19200	9348246	5315-01-128-5601	C-9	15
19200	9348248	5120-01-143-9317	C-15	2
19200	9348250		C-9	28
19200	9348278	1005-01-128-5477	C-10	8

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PART NUMBER INDEX (Cont)

CAGEC	PART NUMBER	STOCK NUMBER	FIG	ITEM
19200	9348287	5360-01-128-5637	C-10	9
19200	9348291	5365-01-134-6818	C-10	10
19200	9348294	1005-01-128-5475	C-10	3
19200	9348295	1005-01-128-5476	C-10	4
19200	9348296	5360-01-128-5636	C-10	2
19200	9348298	5315-01-128-5617	C-10	20
19200	9348299	1005-01-128-5473	C-10	7
19200	9348300	5360-01-128-5474	C-10	6
19200	9348302	1005-01-128-5480	C-10	15
19200	9348303	5315-01-128-5618	C-10	11
19200	9348304	5360-01-128-5481	C-10	16
19200	9348305	1005-01-128-5482	C-10	12
19200	9348306	5340-01-128-5604	C-10	13
19200	9348307	1005-01-128-5483	C-10	14
19200	9348308	1005-01-128-5472	C-9	32
19200	9348312	5315-01-129-3050	C-9	30
19200	9348314	5340-01-128-5602	C-9	29
			C-12B	2
19200	9348320	1005-01-130-3506	C-2	10
19200	9348321		C-8	1
19200	9348324	5315-01-130-3454	C-8	4
19200	9348325	5315-01-130-3453	C-8	5
19200	9348327	3040-01-130-3375	C-8	2
19200	9348328		C-8	6
19200	9348329	1005-01-130-3381	C-8	7
19200	9348330	1005-01-130-3380	C-8	12
19200	9348334	5360-01-130-3462	C-8	10
			C-8	19
19200	9348335	5315-01-130-3456	C-8	13
			C-8	21
19200	9348336	1005-01-130-3376	C-8	8
			C-8	17
19200	9348337	5315-01-130-3455	C-8	9
			C-8	18
19200	9348338		C-8	14
19200	9348339	1005-01-130-3379	C-8	15
19200	9348340	1005-01-130-3378	C-8	16
19200	9348345	1005-01-128-5492	C-2	9
19200	9348350		C-2	8
19200	9348352	1005-01-128-5489	C-7	17
19200	9348353	5315-01-135-4801	C-7	18
19200	9348354	1005-01-128-5491	C-7	6
19200	9348363	5315-01-128-5621	C-7	10
19200	9348364	1005-01-128-5714	C-7	9
19200	9348365	5360-01-128-5490	C-7	1
19200	9348366	5360-01-128-5639	C-7	8
19200	9348367	5315-01-128-5610	C-7	7
19200	9348368	1005-01-128-5710	C-7	2

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PART NUMBER INDEX (Cont)

CAGEC	PART NUMBER	STOCK NUMBER	FIG	ITEM
19200	9348370	1005-01-128-5712	C-7	5
19200	9348372	5306-01-128-5597	C-7	4
19200	9348391		C-2	6
19200	9348392	1005-01-128-5468	C-6	7
19200	9348393	1005-01-128-5470	C-6	8
19200	9348394	5315-01-128-5626	C-6	3
19200	9348395	1005-01-128-5705	C-6	2
19200	9348397	5315-01-128-5616	C-6	10
19200	9348398	5315-01-128-5615	C-6	9
19200	9348404	5315-01-128-5625	C-6	6
19200	9348405	1005-01-134-6737	C-2	4
19200	9348412		C-2	5
19200	9348415		C-5	4
19200	9348416		C-5	3
19200	9348437	1005-01-128-5464	C-3	9
19200	9348438	1005-01-135-4765	C-3	6
19200	9348439	5310-01-128-5676	C-3	7
19200	9348440	5310-01-128-5651	C-3	8
19200	9348441	1005-01-128-5466	C-3	3
19200	9348442	1005-01-128-5465	C-3	4
19200	9348452	5360-01-128-5632	C-2	7
19200	9348460	5340-01-131-2056	C-12B	5
19200	9348461	5315-01-131-2059	C-12B	4
19200	9348467		C-1	3
19200	9348468	5340-01-158-0134	C-13	2
19200	9349051	1005-01-134-3633	C-3	12
19200	9349998		C-11A	17
19200	9349999	1005-01-131-1905	C-11A	10
19200	9350000		C-11A	15
19200	9350001	1005-01-131-1908	C-11A	16
19200	9350002	5310-01-131-1907	C-11A	11
19200	9350004	5315-01-131-1909	C-11A	13

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PART NUMBER INDEX (Cont)

CAGEC	PART NUMBER	STOCK NUMBER	FIG	ITEM
19200	9350006	5305-01-131-2076	C-11A	8
19200	9350007	5355-01-131-1899	C-11A	3
19200	9350011	1005-01-131-1902	C-11A	1
19200	9350015	5355-01-131-1901	C-11A	2
19200	9350018	1005-01-131-1903	C-11A	9
19200	9350020	5310-01-131-2089	C-11A	6
19200	9350022	5310-01-131-2084	C-10	18
19200	9350023	5305-01-132-0439	C-10	17
19200	9350025		C-7	11
19200	9350027	1005-01-131-1911	C-7	14
19200	9350028		C-7	15
19200	9350029		C-7	16
19200	9350031	1005-01-141-3826	C-15	1
19200	9350033	5120-01-141-3839	C-15	3
19200	9350034	5120-01-141-4612	C-15	4
19200	9350047	1005-01-211-8368	C-3	5
19200	9350048	5315-01-211-8392	C-3	2
19200	9350067	1005-01-236-0238	C-9	9
19200	9350086		C-5	6
19200	9350088	5360-01-225-8558	C-11A	20
19200	9350090	5360-01-236-0285	C-6	1
19200	9350091	5360-01-293-2154	C-8	3
19200	9350096	5210-01-259-3454	C-15	9
19200	9350102	1005-01-141-3830	C-15	6
19200	9350104	5220-01-141-4732	C-15	10
19200	9362860	1005-01-158-2226	C-15	7

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FIG	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
C-1	1	1005-01-127-7510	19200	9348199
C-1	2		19200	9348200
C-1	3		19200	9348467
C-2	1	1005-01-470-5046	19200	12011986
C-2	1	1005-01-387-8516	19200	12556957
C-2	2		19200	12556935
C-2	3	1005-01-254-9801	19200	12540416
C-2	4	1005-01-134-6737	19200	9348405
C-2	5		19200	9348412
C-2	6		19200	9348391
C-2	7	5360-01-128-5632	19200	9348452
C-2	8		19200	9348350
C-2	9	1005-01-128-5492	19200	9348345
C-2	12	1005-01-324-9191	19200	12556973
C-2	13	1005-01-249-0184	19200	12540405
C-3	1		19200	12011985
C-3	2	5315-01-211-8392	19200	9350048
C-3	3	1005-01-128-5466	19200	9348441
C-3	4	1005-01-128-5465	19200	9348442
C-3	5	1005-01-211-8368	19200	9350047
C-3	6	1005-01-135-4765	19200	9348438
C-3	7	5310-01-128-5676	19200	9348439
C-3	8	5310-01-128-5651	19200	9348440
C-3	9	1005-01-128-5464	19200	9348437
C-3	12	1005-01-134-3633	19200	9349051
C-3	13	5310-01-284-8541	19200	12557006
C-3	14	1005-01-036-7160	19200	11825992
C-3	15	5315-01-299-4164	19200	12557012
C-3	16	1005-01-299-4657	19200	12557020
C-3	17	5340-01-301-8218	19200	12557008
C-3	18	3120-01-299-4159	19200	12557009
C-3	19	5360-00-078-0122	96906	MS24585C279
C-3	20		19200	12557001
C-4	1	1005-01-306-2700	19200	12556951
C-4	2	1005-01-278-6898	19200	12556939
C-4	3	5305-01-280-9759	19200	12556938
C-4	4	1005-01-274-6345	19200	12556940
C-4	5	5305-01-452-9638	19200	12556936
C-4	7	1005-01-274-5102	19200	12556941

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FIGURE AND ITEM NUMBER INDEX (Cont)

FIG	ITEM	STOCK NUMBER	CAGEC	PART NUMBER
C-4C	1		19200	12540417
C-4C	2	5315-01-362-5071	19200	12556963
C-5	1	1005-01-392-6194	19200	12540412
C-5	2	1005-01-383-0168	19200	12557025
C-5	3		19200	9348416
C-5	4		19200	9348415
C-5	5		19200	12540400
C-5	6		19200	9350086
C-6	1	5360-01-236-0285	19200	9350090
C-6	2	1005-01-128-5705	19200	9348395
C-6	3	5315-01-128-5626	19200	9348394
C-6	4	5360-01-133-8874	19200	11826046
C-6	5	3120-01-127-8980	19200	11826042
C-6	6	5315-01-128-5625	19200	9348404
C-6	7	1005-01-128-5468	19200	9348392
C-6	8	1005-01-128-5470	19200	9348393
C-6	9	5315-01-128-5615	19200	9348398
C-6	10	5315-01-128-5616	19200	9348397
C-7	1	5360-01-128-5490	19200	9348365
C-7	2	1005-01-128-5710	19200	9348368
C-7	3	5315-01-033-3890	19200	11826255
C-7	4	5306-01-128-5597	19200	9348372
C-7	5	1005-01-128-5712	19200	9348370
C-7	6	1005-01-128-5491	19200	9348354
C-7	7	5315-01-128-5610	19200	9348367
C-7	8	5360-01-128-5639	19200	9348366
C-7	9	1005-01-128-5714	19200	9348364
C-7	10	5315-01-128-5621	19200	9348363
C-7	11		19200	9350025
C-7	12	1005-01-306-9442	19200	12556995
C-7	13	5315-01-309-7192	81349	D63477/3-102P
C-7	14	1005-01-131-1911	19200	9350027
C-7	15		19200	9350028
C-7	16		19200	9350029
C-7	17	1005-01-128-5489	19200	9348352
C-7	18	5315-01-135-4801	19200	9348353
C-8	1		19200	9348321
C-8	2	3040-01-130-3375	19200	9348327
C-8	3	5360-01-293-2154	19200	9350091
C-8	4	5315-01-130-3454	19200	9348324
C-8	5	5315-01-130-3453	19200	9348325
C-8	6		19200	9348328
C-8	7	1005-01-130-3381	19200	9348329
C-8	8	1005-01-130-3376	19200	9348336
C-8	9	5315-01-130-3455	19200	9348337
C-8	10	5360-01-130-3462	19200	9348334

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C-8	11	5340-01-324-9195	19200	12556972
C-8	12	1005-01-130-3380	19200	9348330
C-8	13	5315-01-130-3456	19200	9348335
C-8	14		19200	9348338
C-8	15	1005-01-130-3379	19200	9348339
C-8	16	1005-01-130-3378	19200	9348340
C-8	17	1005-01-130-3376	19200	9348336
C-8	18	5315-01-130-3455	19200	9348337
C-8	19	5360-01-130-3462	19200	9348334
C-8	20	5340-01-324-9195	19200	12556972
C-8	21	5315-01-130-3456	19200	9348385
C-9	1		19200	9348202
C-9	2	5360-01-128-5493	19200	9348216
C-9	3	1005-01-130-2128	19200	9348220
C-9	4	5360-01-128-5640	19200	9348221
C-9	5	5315-01-128-5612	19200	9348222
C-9	7	5340-01-128-5605	19200	9348225
C-9	8	5360-01-128-5641	19200	9348231
C-9	9	1005-01-236-0238	19200	9350067
C-9	10	1005-01-128-5721	19200	9348223
C-9	11	5315-01-128-5494	19200	9348224
C-9	12	5315-01-128-5613	19200	9348230
C-9	13	5340-01-128-5607	19200	9348245
C-9	14	5340-01-128-5608	19200	9348219
C-9	15	5315-01-128-5601	19200	9348246
C-9	16	5315-01-379-6196	19200	12540401
C-9	17	1005-01-128-5497	19200	9348232
C-9	18	5360-01-128-5643	19200	9348233
C-9	19	5315-01-128-5614	19200	9348234
C-9	20	5340-01-128-5606	19200	9348235
C-9	21	5315-01-131-2058	19200	9348217
C-9	22	5315-01-131-2060	19200	9348218
C-9	24	5340-01-128-5742	19200	9348239
C-9	25	5360-01-128-5642	19200	9348238
C-9	26	5315-01-128-5622	19200	9348240
C-9	28		19200	9348250
C-9	28A		19200	12556985
C-9	29	5340-01-128-5602	19200	9348314
C-9	30	5315-01-129-3050	19200	9348312
C-9	31	5360-01-463-1009	19200	12556983
C-9	31A	3040-21-907-6341	19200	12556984
C-9	32	1005-01-128-5472	19200	9348308
C-9	33	1005-01-423-8813	19200	12540403
C-9	34		19200	12540404
C-9	35	5340-01-324-9189	19200	12556980
C-9	36	5315-00-690-0544	96906	MS39086-93
C-10	1A	1005-01-463-1008	19200	12556986
C-10	1	5340-01-381-1924	19200	12557022
C-10	2	5360-01-128-5636	19200	9348296

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C-10	4	1005-01-128-5476	19200	9348295
C-10	5	5315-01-033-8872	19200	11826202
C-10	6	5360-01-128-5474	19200	9348300
C-10	7	1005-01-128-5473	19200	9348299
C-10	8	1005-01-128-5477	19200	9348278
C-10	9	5360-01-128-5637	19200	9348287
C-10	10	5365-01-134-6818	19200	9348291
C-10	11	5315-01-128-5618	19200	9348303
C-10	12	1005-01-128-5482	19200	9348305
C-10	13	5340-01-128-5604	19200	9348306
C-10	14	1005-01-128-5483	19200	9348307
C-10	15	1005-01-128-5480	19200	9348302
C-10	16	5360-01-128-5481	19200	9348304
C-10	17	5305-01-132-0439	19200	9350023
C-10	18	5310-01-131-2084	19200	9350022
C-10	20	5315-01-128-5617	19200	9348298
C-10	21	1005-01-361-6140	19200	12556970
C-10	21A	1005-01-461-0328	19200	12556988
C-11A	1	1005-01-131-1902	19200	9350011
C-11A	2	5355-01-131-1901	19200	9350015
C-11A	3	5355-01-131-1899	19200	9350007
C-11A	4	5315-01-128-5622	19200	9348240
C-11A	5	1005-01-326-7291	19200	12556978
C-11A	6	5310-01-131-2089	19200	9350020
C-11A	7	5305-01-326-3791	19200	12556979
C-11A	8	5305-01-131-2076	19200	9350006
C-11A	9	1005-01-131-1903	19200	9350018
C-11A	10	1005-01-131-1905	19200	9349999
C-11A	11	5310-01-131-1907	19200	9350002
C-11A	12	5340-01-128-5606	19200	9348235
C-11A	13	5315-01-131-1909	19200	9350004
C-11A	14	5315-01-128-5622	19200	9348240
C-11A	15		19200	9350000
C-11A	16	1005-01-131-1908	19200	9350001
C-11A	17		19200	9349998
C-11A	17A		19200	12556989
C-11A	18	9535-01-326-5390	19200	12556975
C-11A	19	1005-01-327-4583	19200	12557030
C-11A	20	5360-01-225-8558	19200	9350088
C-11A	21		96906	MS19060-505
C-11A	22		19200	12556977
C-11A	23		19200	12556976

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FIGURE AND ITEM NUMBER INDEX (Cont)

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C-12B	2	5340-01-128-5602	19200	9348314
C-12B	3	5315-01-325-1721	19200	12556971
C-12B	4	5315-01-131-2059	19200	9348461
C-12B	5	5340-01-131-2056	19200	9348460
C-13	1	1005-00-312-7177	19204	12002983
C-13	2	5340-01-158-0134	19200	9348468
C-14	1	1005-01-411-1264	19200	12956141
C-14	2	9330-01-396-4042	19200	12956152
C-14	3		19200	12956149
C-14	4	1005-01-396-4038	19200	12956142
C-14	5	1005-01-396-4041	19200	12956143
C-14	6	5360-01-396-7880	19200	12956147
C-14	7	5365-01-396-4043	19200	12956146
C-14	8	5325-01-270-3431	19200	MS16624-3125
C-14	9	1005-01-396-4040	19200	12956153
C-14	10	1005-01-396-4039	19200	12956154
C-15	1	1005-01-141-3826	19200	9350031
C-15	2	5120-01-143-9317	19200	9348248
C-15	3	5120-01-141-3839	19200	9350033
C-15	4	5120-01-141-4612	19200	9350034
C-15	5	1005-01-315-5229	19200	12540422
C-15	6	1005-01-141-3830	19200	9350102
C-15	7	1005-01-158-2226	19200	9362860
C-15	8	4933-00-070-9151	19204	11010032
C-15	9	5210-01-259-3454	19200	9350096
C-15	10	5220-01-141-4732	19200	9350104

APPENDIX D
EXPENDABLE SUPPLIES AND MATERIALS LIST

Section I. INTRODUCTION

D-1. SCOPE. This appendix lists expendable supplies and materials you will need to operate and maintain the machine gun. These items are authorized to you by CTA 50-970, Expendable items (Except Medical, Class V, Repair Parts, and Heraldic items).

D-2. EXPLANATION OF COLUMNS.

a. Column 1, Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g. "Use Cleaner, Lubricant and Preservative (CLP), item 1, app D").

b. Column 2, Level. This column identifies the lowest level of maintenance that requires the listed item.

C - Operator/Crew
O - Unit Maintenance
F - Direct Support Maintenance

c. Column 3, National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column 4, Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the Commercial and Government Entity Code (CAGEC) in parentheses followed by the part number.

e. Column 5, Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two character alphabetical abbreviation (e.g., ea, in., pr). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) Item Number	(2) Level	(3) National Stock Number	(4) Description	(5) U/M
			Cleaner, Lubricant and Preservative (CLP) (81349) MIL-L-63460	
1	O	9150-01-054-6453	1 pint bottle	PT
2	O	9150-01-053-6688	1 gal bottle	GL
3	C	7920-00-205-1711	Rag, Wiping; Cotton (58536) A-A-531 50 lb bdl	EA
4			DELETED	
5	F	5350-00-221-0872	Cloth, Abrasive, Crocus A-A-1206(58536)	SH
6	F	6850-00-826-0981	Inspection Penetrant (81349) MIL-I-25135	KT
7	O	9150-01-260-2534	Lubricant, Solid Film (81349) MIL-L-23398 16 oz. aerosol can	CN
8	O	7510-00-266-6712	Tape, Pressure Sensitive, Masking (58536) A-A-883 1 in. wide, 60 yd roll	YD
9	O	6850-00-281-1985	Dry Cleaning Solvent (SD) (81346) ASTM D 235 1-gal (3.79L) can	GL
10	F	8030-00-111-2763	Sealing Compound (05972) 290-21 Green, Type 3, Grade R 10 oz bottle	BT
11	O	8010-00-079-3760	Enamel (81348) TT-E-488	PT
			OR	
		8010-01-331-6109	Enamel (81348) A-A-2787	PT
11.1	O	6850-01-474-2319	General Solvent MIL-PRF-680 1-gal (3.79L)	GL

SECTION II. EXPENDABLE SUPPLIES AND MATERIALS LIST

(1) ITEM NUMBER	(2) LEVEL	(3) NATIONAL STOCK NUMBER	(4) DESCRIPTION	(5) U/M
			LUBRICATING OIL, P-9 (81348) VV-L-800	
11	F	9150-00-231-6689	1 QT CAN	QT
12	F	9150-00-231-9062	5 GAL CAN	GL
13	F	8135-00-269-8088	TAPE, PRESSURE SENSITIVE (81348) PPP-T-60 2 IN. WIDE, 60 YD ROLL	YD
			BOX, FIBERBOARD (81348) PP-B-636	
14	F	8115-00-190-4858	15 EA BDL - 9" X 6-1/2" X 32"	EA
15	F	8115-00-190-5020	10 EA BDL - 14" X 14" X 36"	EA
			BOX, SHIPPING (81348) PPP-B-601	
16	F	8115-01-023-0301	15-1/5" X 21-1/4" X 37-1/4"	EA
17		8115-01-019-1632	33-1/4" X 37-1/4" X 45-1/2"	EA
18	F	5315-00-010-4657	NAIL, COMMON 6D (2 IN.) (96906) 50 LB BOX 55907135	LB
19	F	8135-00-286-8565	STEEL STRAPPING, FLAT, (81348) QQ-S-781 5/8" WIDE, 100 LB COIL	LB
20	F	8135-00-855-6969	CUSHIONING MATERIAL, PACKAGING (81348) PPP-C-843 24 IN. WIDE, 100 FT. ROLL	FT
21	O	6850-00-281-1985	DRY CLEANING SOLVENT (SD) 1-GAL (3.79L) CAN A-A-711 (58536)	GL
22	F	8030-00-111-2763	SEALING COMPOUND (05972) 290-21 GREEN, TYPE 3, GRADE R 10 OZ BOTTLE	BT

CHANGE 3

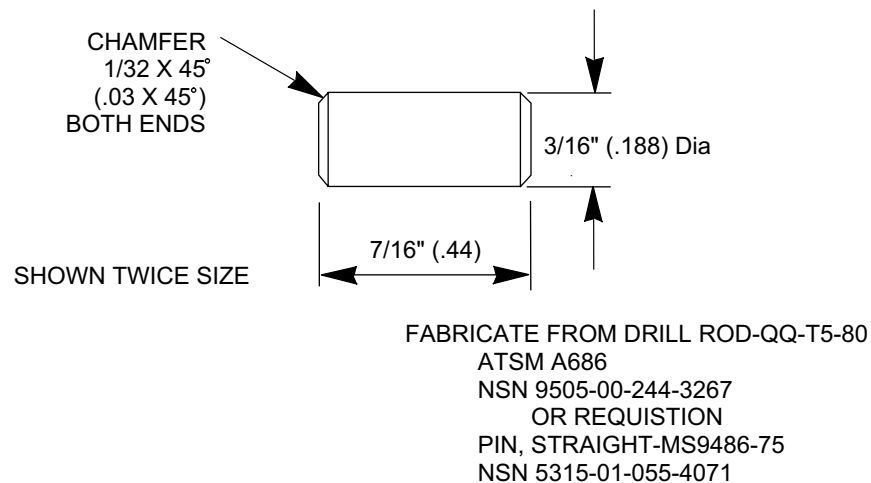
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APPENDIX E ILLUSTRATED LIST OF MANUFACTURED ITEMS

INTRODUCTION

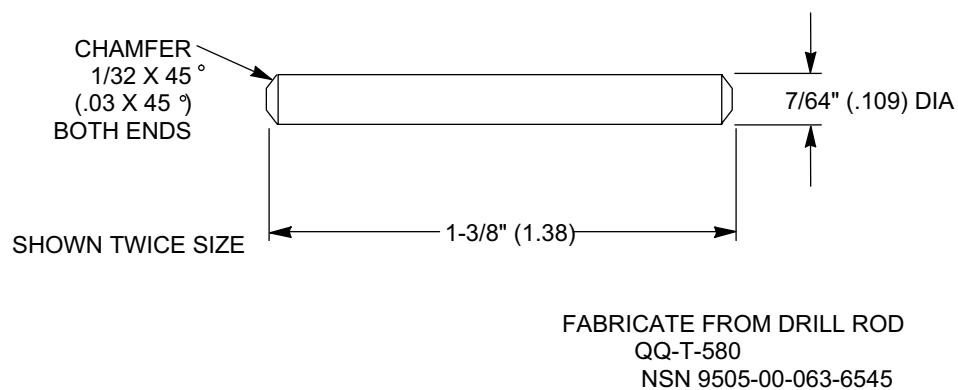
a. This appendix includes complete instructions for making items authorized to be manufactured or fabricated at Direct Support Maintenance.

b. All bulk materials needed for manufacture of an item are listed by part number or specification number in a tabular list on the illustration.



1JDU341

Figure E-1. Barrel Latch Assembly Tool.



1JDU342

Figure E-2. Magazine Cover Assembly Tool.

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PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO								
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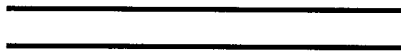
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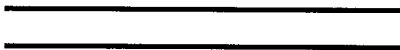
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THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 Lb
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq Centimeter = 100 Sq Millimeters = 0.155 Sq Inches
 1 Sq Meter = 10,000 Sq Centimeters = 10.76 Sq Feet
 1 Sq Kilometer = 1,000,000 Sq Meters = 0.386 Sq Miles

CUBIC MEASURE

1 Cu Centimeter = 1000 Cu Millimeters = 0.06 Cu Inches
 1 Cu Meter = 1,000,000 Cu Centimeters = 35.31 Cu Feet

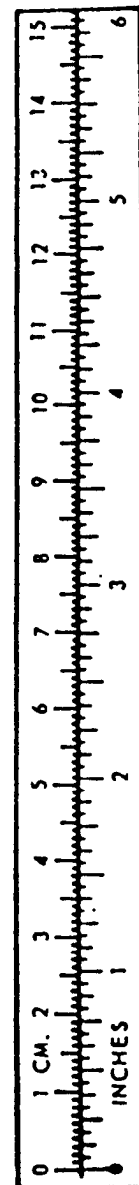
TEMPERATURE

$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212^o Fahrenheit is equivalent to 100^o Celsius
 90^o Fahrenheit is equivalent to 32.2^o Celsius
 32^o Fahrenheit is equivalent to 0^o Celsius
 $9/5 \text{ C}^{\circ} + 32 = \text{F}^{\circ}$

APPROXIMATE CONVERSION FACTORS

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

<u>TO CHANGE</u>	<u>TO</u>	<u>MULTIPLY BY</u>
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



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